

Complete

GENERAL CATALOG



PATLITE is Number 1 for Signaling Technology.

Combining innovative LED technology and advanced optical design, PATLITE's signaling products deliver the highest level of illumination and reliability with protection up to IP-69K. Featuring a broad selection of models, sizes, designs and optional accessories, you can find the best solution for specific requirements. PATLITE's quality standard guarantees long-term customer satisfaction in diversified applications. There is no better choice for signaling products than PATLITE for now and the future.

PATLITE is number one in the world for signaling solutions.

Outstanding Illumination

PATLITE's high-intensity LEDs and innovative lens design ensures outstanding illumination and exceptional brightness from any direction and distance.



Patented Reflection System

PATLITE's patented reflection system is optimized for full illumination over the entire lens.

Low Power Consumption

PATLITE's high-intensity LEDs are eight times more efficient than conventional incandescent bulbs.



Long Service Life and Reliability

PATLITE's high-intensity LEDs guarantees an extended service life of 60,000 hours. That is more than 5 years of continuous operation!



Note: For one LED module and one bulb with continuous operation

Reduced Maintenance and Labor

PATLITE's high-intensity LEDs drastically reduces costly maintenance requirements for replacing bulbs. The life of PATLITE's high intensity LEDs is over 16 times longer than conventional incandescent bulbs.



Environmentally Responsible

Many PATLITE products use lead-free technology, and are RoHS compliant. In addition, long-life LEDs reduce waste compared to conventional incandescent bulbs.



Rugged and Robust Design

PATLITE's design with a center shaft in its signal tower ensures the structural integrity of the modules, promising protection against vibration and mishandling. Yet, it offers modularity and flexibility for changing the LED modules. The smooth-finished body surface prevents collection and adhesion of dust, making our products easy to clean. PATLITE's signaling products are constructed using worldclass quality materials to withstand harsh production environments.



"New Frontiers in Safety, Security and Comfort" is PATLITE's mission.

PATLITE offers state-of-the-art equipment for process and industrial automation for over 60 years. Our Innovative and robust design, backed by a powerful commitment and years of knowledge, has made PATLITE the world's best known manufacturer of the visual and audible signaling products.

We are also dedicated to the development of explosive and harshenvironment products to demonstrate our strong commitment to serving the industry with unique and innovative solutions.

In order to identify the diversified needs of our customers, and respond quickly and satisfactorily to those needs, we have implemented the POP (Point of Production) System together with a lean-manufacturing cell-based assembly system (combination, single, and flexible assembly). These new systems allow us to handle any order rapidly from single items to customized item orders.

We've also reduced development time and production cost by having our own in-house machinery to produce, design and manufacture metal moldings and plastic materials with the use of injection machinery.

From designing to production, from raw material to the finished product, we also manage our quality control throughout the entire process. This is how we maintain our world class quality reputation in the visual, audible signaling and networking information products.

 From designing to production, quality control is managed throughout the process







Metal Part Molding Manufacturing



Electrical discharge machine



Machining Center



Injection molding machines

■ Wide-range of Innovative and World-class Quality Products



World-wide Sales, Marketing and After-sales Support Network



INTRODUCTION TO VISUAL & AUDIBLE SIGNAL APPLICATIONS

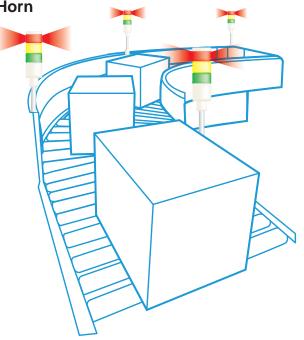
Since 1947, PATLITE has been at the forefront in developing and innovating a variety of signaling products. PATLITE's extensive product range covers highly advanced LED signal towers, beacons, audible alarms, annunciators, and work lights for industrial automation and security applications. As a top brand manufacturer, we aspire to become the global standard for signaling products.

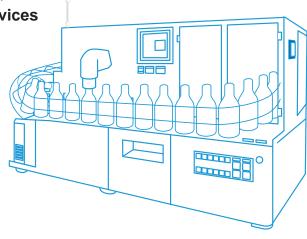
PATLITE products are used in various industries to improve productivity, quality, safety, and security. See how PATLITE can improve your process by reviewing the examples in the following pages.

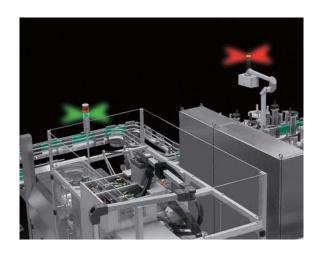
PACKAGING / PROCESSING MACHINES

Use PATLITE signaling devices to provide emergency management for automated carriers, belt conveyors, and other types of equipment on which cargo and/or devices are transported on.

- Recordable Smart Alert
- Smart Alert
- Signal Tower
- Signal Horn





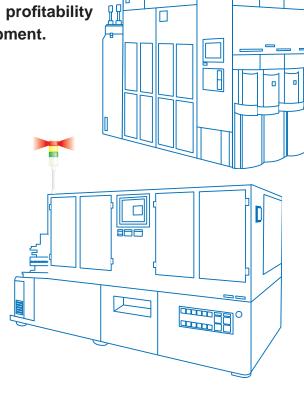


SEMICONDUCTOR / LIQUID CRYSTAL

Achieve high levels of performance and profitability with semiconductor manufacturing equipment.

Real-time machinery status monitoring.

- Signal Tower
- Signal Horn
- Recordable Smart Alert
- Smart Alert

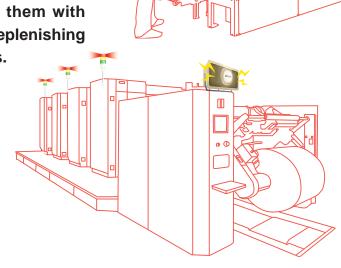


PRINTING

Ensure safe operation by allowing operators to accurately ascertain the operating conditions of printing machines and sounding an alarm in the event of manufacturing losses or machine failure.

Enable operators of printing machines running at a high speed to quickly recognize manufacturing losses and equipment malfunctions by providing them with guidance on resolving paper-feed failures, replenishing ink at suitable times, and other such matters.

- Signal Tower
- Signal Horn
- Recordable Smart Alert
- Smart Alert

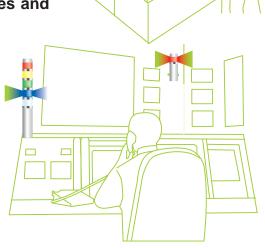


INFORMATION COMMUNICATION

Enable appropriate actions to be taken at call centers, control rooms, and other information control centers.

Indicate the existence of incoming calls, system errors, etc, at call centers and other facilities. Also enable from remote locations to quickly recognize malfunctions and resolve them by displaying such information on the display panels for systems installed in control rooms at transport facilities and other sites.

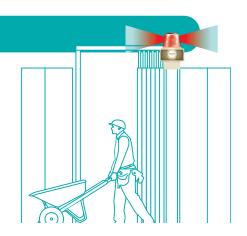
- Signal Tower
- Signal Horn
- Recordable Smart Alert
- Smart Alert
- Network Monitoring System



CONSTRUCTION MACHINES

Prevent accidents involving construction machinery and other accidents occurring at dangerous locations such as construction sites.

Help to mitigate the effects of blind spots on large construction vehicles and machines with the use of LED beacons and other alarm devices. Our broad lineup of products, such as loud Smart Alerts, ensures that workers are aware of alarms even at noisy construction sites.

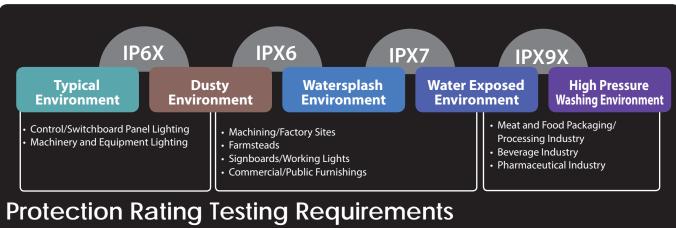


- Signal Tower
- Signal Horn
- Recordable Smart Alert
- Smart Alert



Index of Ingress Protection defined by CEI / IEC 529

| Code No | | |
|--|---|---|
| No protection. | 0 | No protection. |
| Protection against solid objects larger than ø50mm. | 1 | Protection against vertical falling drops of water. |
| Protection against solid objects larger than ø12mm. | 2 | Protection against dripping water when tilted up to 15° |
| Protection against solid objects larger than ø2.5mm. | 3 | Protection against spraying water. |
| Protection against solid objects larger than ø1mm. | 4 | Protection against splashing water. |
| Protection against dust-limited ingress (dust-protected). 5 Protection against water jets. | | |
| Total protection against dust (dust-tight). | 6 | Protection against heavy seas. |
| | 7 | Protection against the effects of immersion. |
| | 8 | Protection against submersion. |



- IP6X= The product is placed in a dust chamber with a negative pressure state so that dust is made to float, and there is no invasion
- IPX6= A water nozzle with a diameter of 12.0mm is placed at a range from 2.5 to 3.0 meters with a water velocity of 100 litres per minute injected towards the test piece in an omni direction for three minutes or more without being affected by any harmful influences.
- IPX7= With the distance of 0.15 m from the top of the product to the water surface and a distance from the bottom of the product to the bottom of the tank at a distance of 1 m, it is submerged for 30 minutes with no harmful penetration.
- * Since testing is performed under a controlled environment within provisions including a designated time, it does not consider conditions for continuous use.

IP69K

IP69K is the German DIN 40050 PART9 standard. It is defined as a protection regulation for high temperature and high-pressurized water. Water is heated up to 80°C and sprayed at a water pressure in the range from 80 to 100 bars at 14 to 16 liters per minute at the test object. The test object is at a distance of 100 to150 mm from the nozzle and sprayed in all directions at 0, 30, 60, and 90 degrees, then sprayed at a horizontal angle while it is being rotated, all done for a period of 30 seconds without being affected by water penetration



Our plan is to increase "Safety, Security, and Comfort" to serve the world.



CEO and President Setsujiro Yamamoto

We earnestly seek to provide valuable goods and services from the customer's viewpoint. We work to create a company that thrives on adversity, building a company for the enrichment of society.

We, the PATLITE group, have obtained customer support and established a dominant position in the Japanese market as a leading manufacturer of information display equipment by providing value added products and services guided by our corporate philosophy of "Safety, Security, and Comfort".

The PATLITE group wants to achieve various social contributions and promote environmentally friendly products through our daily corporate activities, while constantly refining our corporate philosophy to reflect the demands of the current times. Our intention is to grow as an enterprise into a global business that can be relied upon by society and trusted by customers of the world, as we are in Japan, as a leading company in the industry by capitalizing on the strengths of our activities in our country. You can count on our growth. We ask for your continuous support and encouragement.

Localized Product Development

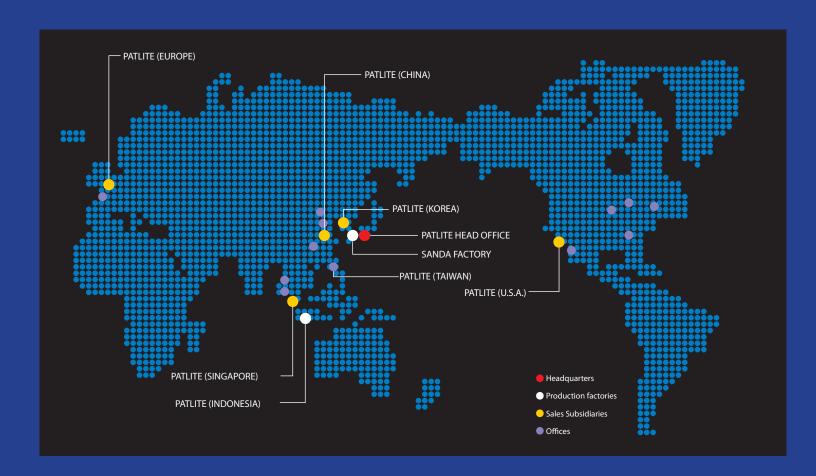
While PATLITE implements local marketing strategies for the area, We are also building a sales network to meet the characteristics for each country and area. The customer's request is precisely understood and the product development details are considered for global standards as well as for local specifications. Furthermore, the various safety standards and environmental regulations of the world are taken into account.



Global Support System Established

Unique value-added solutions are developed by being sensitive to and catching the customer's needs through our sales network and distribution channels established in primary markets for each country of the world. We established an organization for quick response and flexible support from the customer's viewpoint, in order to accelerate globalization. We promise to propose solutions and to become a reliable partner as a professional in the manufacturing industry.





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| NHL 34 O Optional Parts 196 P PES-A 120 PEW-A 120 PHC-100A 41 PHE-3FBE1 40 PHU-3 42 | N | |
| NHL 34 O Optional Parts 196 P PES-A 120 PEW-A 120 PHC-100A 41 PHE-3FBE1 40 PHU-3 42 | NF-24 | 118 |
| O Optional Parts 196 P PES-A 120 PEW-A 120 PHC-100A 41 PHE-3FBE1 40 PHU-3 42 | | |
| Optional Parts 196 P 120 PES-A 120 PEW-A 120 PHC-100A 41 PHE-3FBE1 40 PHU-3 42 | | 31 |
| PES-A 120 PEW-A 120 PHC-100A 41 PHE-3FBE1 40 PHU-3 42 | O | |
| PES-A 120 PEW-A 120 PHC-100A 41 PHE-3FBE1 40 PHU-3 42 | Optional Parts | 196 |
| PEW-A 120 PHC-100A 41 PHE-3FBE1 40 PHU-3 42 | P | |
| PEW-A 120 PHC-100A 41 PHE-3FBE1 40 PHU-3 42 | PES-A | 120 |
| PHC-100A 41 PHE-3FBE1 40 PHU-3 42 | | |
| PHE-3FBE1 40 PHU-3 42 | | |
| PHU-3 42 | | |
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| | PSE | 23 |

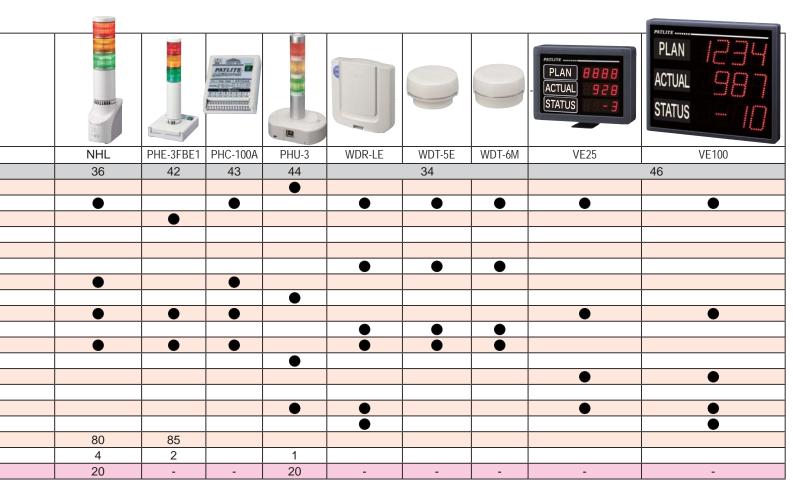
| Replacement Bulbs RES-A RES-A FT RFT 186 RFV 188 RH-A 131 RHE 128 RHEB 128 RHEM 129 RK-A 131 RKE 128 RKEB 128 RKEB 128 RKEM 129 RLE 127 RLR 144 RS 130 RT 190 RU 130 RUP 130 S SKC-A 136 SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-A 133 SKHEB 126 SKH-A 133 SKHEB 126 SKL-A 137 V VE25 VE25 44 VE100 44 W W WD 32 WE 104 WEP 104 WEP 104 WEP 104 WEP 107 WSST 114 X XME 27 XPE 26 | R | |
|---|-------|-----|
| RES-A 57 RFT 186 RFV 188 RH-A 131 RHE 128 RHEB 128 RHEM 129 RK-A 131 RKE 128 RKEB 128 RKEB 128 RKEM 129 RLE 127 RLR 144 RS 130 RT 190 RU 130 RUP 130 S SKC-A 136 SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHE 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 44 VE100 44 W WD 32 WE 104 WEP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 140 WME-A 140 WME-A 107 WSST 114 X | | 204 |
| RFT 186 RFV 188 RH-A 131 RHE 128 RHEB 128 RHEM 129 RK-A 131 RKE 128 RKEB 128 RKEB 128 RKEM 129 RLE 127 RLR 144 RS 130 RT 190 RU 130 RUP 130 S SKC-A 136 SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHEB 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 44 VE100 44 W WD 32 WE 104 WEP 104 WEP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WK-A 140 WME-A 107 WSST 114 X XME 27 | • | |
| RFV 188 RH-A 131 RHE 128 RHEB 128 RHEM 129 RK-A 131 RKE 128 RKEB 128 RKEB 128 RKEM 129 RLE 127 RLR 144 RS 130 RT 190 RU 130 RUP 130 S SKC-A 136 SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHEB 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 44 VE100 44 W WD 32 WE 104 WW WD 32 WE 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WK-A 140 WK-A 140 WME-A 107 WSST 114 X XME 27 | | |
| RH-A 131 RHE 128 RHEB 128 RHEM 129 RK-A 131 RKE 128 RKEB 128 RKEB 128 RKEM 129 RLE 127 RLR 144 RS 130 RT 190 RU 130 RUP 130 S SKC-A 136 SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHEB 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 44 VE100 44 W WD 32 WE 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WK-A 140 WK-A 140 WME-A 107 WSST 114 X XME 27 | | |
| RHE 128 RHEB 128 RHEM 129 RK-A 131 RKE 128 RKEB 128 RKEB 128 RKEM 129 RLE 127 RLR 144 RS 130 RT 190 RU 130 RUP 130 S SKC-A 136 SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHE 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 44 VE100 44 W WD 32 WE 104 WEP 107 WSST 114 X XME 27 | | |
| RHEB 128 RHEM 129 RK-A 131 RKE 128 RKEB 128 RKEB 129 RLE 127 RLR 144 RS 130 RT 190 RU 130 RUP 130 S SKC-A 136 SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHEB 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 44 VE100 44 W WD 32 WE 104 WEP 107 WSST 114 X XME 27 | | |
| RHEM 129 RK-A 131 RKE 128 RKEB 128 RKEM 129 RLE 127 RLR 144 RS 130 RT 190 RU 130 RUP 130 S SKC-A 136 SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKY-A 134 SKV-A 137 V VE25 44 VE100 44 W WD 32 WE 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WKST 114 | | |
| RK-A 131 RKE 128 RKEB 128 RKEM 129 RLE 127 RLR 144 RS 130 RT 190 RU 130 RUP 130 S SKC-A 136 SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 44 VE100 44 W WD 32 WE 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WK-A 140 WK-A 140 WK-A 140 WME-A 107 WSST 114 X XME 27 | | |
| RKE RKEB RKEM RKEM 129 RLE 127 RLR 144 RS 130 RT 190 RU 130 RUP 130 S S SKC-A 136 SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 VE100 44 W WD WEP 104 WEP 104 WEP 104 WEP 104 WEP 104 WEP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WK-A 140 WME-A 107 WSST 114 X XME | | |
| RKEB RKEM 129 RLE 127 RLR 144 RS 130 RT 190 RU 130 RUP 130 S SKC-A 136 SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 VE100 44 W WD WD WD WD WD WCE25 WE 104 WEP 104 WEP 104 WEP 104 WEP 104 WEP 104 WEP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WK-A 140 WK-A 140 WK-A 140 WME-A 107 WSST 114 | | |
| RKEM 129 RLE 127 RLR 144 RS 130 RT 190 RU 130 RUP 130 S SKC-A 136 SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 44 VE100 44 W WD 32 WE 104 WEP 104 WEP 104 WEP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WK-A 140 WK-A 140 WME-A 107 WSST 114 X XME 27 | | |
| RLE 127 RLR 144 RS 130 RT 190 RU 130 RUP 130 S SKC-A 136 SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 44 VE100 44 W WD 32 WE 104 WEP 104 WEP 104 WEP 104 WEP 104 WEP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WMC-A 140 WMC-A 107 WSST 114 X XME 27 | | |
| RLR RS 130 RT 190 RU 130 RU 130 RUP 130 S SKC-A 136 SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 44 VE100 44 W WD WD WD WD WD WD WD WD WEP 104 WEP 104 WEP 104 WEP 104 WEP 104 WEP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WK-A 140 WK-A 140 WK-A 1140 WK-A 1140 X X XME 27 | | |
| RS 130 RT 190 RU 130 RUP 130 S SKC-A 136 SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 44 VE100 44 W WD 32 WE 104 WEP 104 WEP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WK-A 140 WK-A 140 WME-A 107 WSST 114 X XME 27 | | |
| RT RU RU RUP 130 RUP 130 S SKC-A SKC-A SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 VE100 44 W WD WD WD WD WD WEP 104 WEP 104 WEP 104 WEP 104 WEP 104 WEP 104 WEP-C3 WE 104 WEP-C3 138 WEP-K3 136 WH-A 140 WK-A 140 WK-A 140 WK-A 140 WK-A 140 WK-A 140 WSST 114 | | |
| RU 130 RUP 130 S SKC-A 136 SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 44 VE100 44 W WD 32 WE 104 WEP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X XME 27 | | |
| RUP 130 S SKC-A SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 44 VE100 44 W WP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X XME | | |
| S SKC-A SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 VE100 44 W WD WD WD WD WD WEP 104 WEP 104 WEP 104 WEP 104 WEP 104 WEP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WK-A 140 WK-A 140 WSST 114 X XME | | |
| SKC-A 136 SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 VE100 44 W WD WE 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X XME | | |
| SKH-A 132 SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 VE100 44 WW 32 WE 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X XME | | 404 |
| SKHB-1006D 138 SKHE 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 VE100 44 WW 32 WE 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X X XME 27 | | |
| SKHE 126 SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 VE100 44 WD 32 WE 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X XME | | |
| SKH-EA 133 SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 VE100 44 W WD WE 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X XME | | |
| SKHEB 126 SKL-A 135 SKP-A 134 SKV-A 137 V VE25 VE100 44 WD 32 WE 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X X XME 27 | | |
| SKL-A 135 SKP-A 134 SKV-A 137 V VE25 VE100 44 W WD WE 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X XME | | |
| SKP-A 134 SKV-A 137 V VE25 VE100 44 W WD WE 104 WEP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X XME | | |
| SKV-A 137 V VE25 44 VE100 44 W W WD 32 WE 104 WEP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X X XME 27 | | |
| V VE25 44 VE100 44 W 32 WE 104 WEP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X X XME 27 | | |
| VE100 44 W W WD 32 WE 104 WEP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X X XME 27 | SKV-A | 13/ |
| VE100 44 W W WD 32 WE 104 WEP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X X XME 27 | V | |
| WD 32 WE 104 WEP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X XME 27 | VE25 | 44 |
| WD 32 WE 104 WEP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X XME 27 | VE100 | 44 |
| WE 104 WEP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X XME 27 | W | |
| WE 104 WEP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X XME 27 | WD | 32 |
| WEP 104 WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X XME 27 | | |
| WEP-C3 38 WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X XME 27 | | |
| WEP-K3 36 WH-A 140 WK-A 140 WME-A 107 WSST 114 X XME 27 | | |
| WK-A 140 WME-A 107 WSST 114 X XME 27 | | |
| WK-A 140 WME-A 107 WSST 114 X XME 27 | WH-A | 140 |
| WME-A 107 WSST 114 X XME 27 | | |
| WSST 114 X XME 27 | | |
| XME 27 | | |
| XME 27 | X | |
| | | 27 |
| 20 | | |
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| Signa | I Towe | r | | | | | | | | | | | | | | |
|------------|-----------|------|----------|-----|----|------|-----|-------|-----|-------|-------|----------|-----|-------|-------|--|
| | | | | | | | | | | | | | | | | |
| Diameter | (mm) | 2 | 25 | | 30 | | | 4 | 0 | | | | 50 | | | |
| Model | | ME-A | MES-A | MPS | MP | MP-C | LCE | LCE-U | LCS | LCS-U | LES-A | LE | LU5 | LU5-U | LU5-K | |
| Page No. | | 6 | 62 | 6 | 64 | 66 | 6 | 8 | 7 | 71 | 73 | 75 | | 78 | | |
| | AC/DC12V | | | | | | | | | | | | | | | |
| | DC24V | | | | | | | | | | | | | | • | |
| | AC/DC24V | | | | | | | | • | | | | | | | |
| Voltage | AC90-250V | | | | | | 0 | 0 | | | | | | | | |
| voltage | AC100V | | | | | | | | | | | | | | | |
| | AC120V | | | | | | | | | | | • | | | | |
| | AC220V | | | | | | | | | | | | | | | |
| | AC230V | | | | | | | | | | | | | | | |
| Body | White | | | | | | • | | • | | | • | • | | | |
| Color | Silver | • | | | | | | | | | | | | | | |
| | Black | | | | | | | | | | | | | | | |
| Sound | dB | | | | | | | 35 | | | | 85 | | 85 | | |
| Function | | | | | | | | 2 | | | | 2 | | 2 | | |
| Connector | | | | | | | | | | | | | | | | |
| Туре | M12 QD | | | | | | | | | | | | | | | |
| Transistor | PNP | | | | | | | | • | • | | • | • | | | |
| Input | NPN | | | | | | | | | | | | | | | |
| Flashing | | | <u> </u> | | | | • | | | | | <u> </u> | • | | | |
| IP Rating | | 4 | 12 | | 65 | | 6 | 55 | 5 | 54 | 65 | 54 | | 65 | | |

| Wall Mo | ount Signa | Tower | |
|-------------|----------------|--------------|-------|
| | | | |
| Model | | WE/WEP | WME-A |
| Page No. | | 106 | 109 |
| Voltage | AC/DC24V | • | |
| voltage | AC90-250V | | 0 |
| Pady Calar | White | | |
| Body Color | Chrome-plating | • | |
| Sound | dB | 90 | 90 |
| Function | Sounds | 2 | 2 |
| Transistor | PNP | • | • |
| Input | NPN | | |
| Flashing Fu | nction | • | • |
| IP Rating | | 65 | 65 |

| Netwo | rk | ###################################### | | | | | |
|---------------|----------|--|--------|-------|--------|--------|--|
| | | | | | | | |
| Model | | LE-K3 | WEP-K3 | LE-C3 | LHE-C3 | WEP-C3 | |
| Page No. | | | 38 | | 40 | | |
| Voltage | DC 5V | | | | | | |
| | DC 24V | | | | | | |
| | AC120V | | | | | | |
| | CompoNet | | | | | | |
| Network | CC-Link | | | | | | |
| | ZigBee | | | | | | |
| | LAN | | | | | | |
| Connection | USB | | | | | | |
| Connection | RS-232C | | | | | | |
| | 2.4GHz | | | | | | |
| Dadu | White | | | | | | |
| Body Color | Silver | | | | | | |
| COIOI | Black | | | | | | |
| | Pole | | | • | | | |
| Mounting | Direct | | | | • | | |
| | Wall | | • | | | • | |
| Sound | dB | 85 | 90 | 85 | 90 | 90 | |
| Function | Sounds | 2 | 1 | 2 | 2 | 1 | |
| IP Rating | | 23 | 23 | 23 | 65 | 23 | |

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|-------|-------|---------|-------|----------|----------|-----|--------|--------|------------|---------|-------|----------|---------|----------|-----|
| 1.140 | 1.545 | I . NAT | 60 | 1145.0 | 1145.0 | | 1117.0 | 1 | 1 1117 017 | | 70 | 1 111717 | 1.07.11 | 1.07.0 | 100 |
| LMS | LME | | LME-N | | | | LU7-S | LU7-SU | LU7-SK | LU7 | LU7-U | LU7-K | LS7-H | | LGE |
| 82 | | 84 | I | 8 | <u> </u> | 91 | | | 9. | 4 | | ı | I. | 02 | 112 |
| | | | | • | | | | • | | • | | • | | | |
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| | | | | | | | | | | | | | | | |
| | | 90 | | 9 | | 90 | | | 9 | | | | | 0 | 85 |
| | | 2 | 1 | 2 | 2 | 2 | | r - | 2 | | | | | 2 | 1 |
| | | | | | | | • | • | | • | • | • | | | |
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| • | • | • | • | A | A | • | • | • | • | • | • | • | | | |
| | | | | | | | | | | | | | | | |
| C.F. | • | 0.5 | | • | | 0.5 | • | | | | | | | <u> </u> | |
| 65 | | 65 | | 6 | 5 | 65 | | | 6 | 5 | | | 6 | 55 | 54 |



| Revol | ving Wa | rnin | g Lig | ght | | | | | | | | | | 0 | | | |
|---------------|------------|------|-------|-----|-----|----------|-----|------|------|------|---------|--------|------|------|-------|-------|--|
| | | | | | *** | 1 | 777 | | | | | | | | | | |
| Diameter | (mm) | | 82 | | | | | | | 100 | 1 | | | | 118 | 138 | |
| М | lodel | RLE | RU | RS | RKE | RKEM | RHE | RHEM | RH-A | RK-A | SKHE(B) | SKH-EA | WH-A | WK-A | SKH-A | SKP-A | |
| Pag | ge No. | 129 | 1 | 32 | 130 | 131 | 130 | 131 | 1: | 33 | 128 | 135 | 1 | 42 | 134 | 136 | |
| | DC12V | | | | | | | | | | | | • | | | | |
| | DC24V | | | | | | | | | | | | | | | | |
| | AC24V | | | | | | | | | | | | | | | | |
| | DC48V | | | | | | | | | | | | | | | | |
| \/altaas | AC100V | | | | | | | | | | | | | | | | |
| Voltage | AC120V | | | | | | | | | | | | | | | | |
| | AC200V | | | | | | | | | | | | | | | | |
| | AC220V | | • | | | | | | | | | | | | | | |
| | AC240V | | • | | | 1 | | | • | | | | | | | | |
| | AC100-200V | | | | | | | | | | | | | | | | |
| | White | | • | | | | • | | | | | | • | | | | |
| Body | Silver | | | | | | | | | | | | | | | | |
| Color | Black | | | | | | | | | | | | | | | | |
| | Dome Color | | | | | | | | | | | | | | • | • | |
| | Red | | | | | | | | | | | | | | | | |
| Da | Yellow | | | | | | | | | | | | | | | | |
| Dome Color | Green | | | | | | | | | | | | | | | | |
| 00101 | Blue | | | | | | | | | | | | | | | | |
| | Violet | | | | | | | | | | | | | | | | |
| Sound | dB | | | | 88 | 88 | 88 | 88 | 90 | 90 | 88 | | 90 | 90 | 90 | | |
| Function | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | |
| | Bulb | | | | | | | | | | | | | | | | |
| Light | LED | | | | | | | | | | • | | | | | | |
| | Halogen | | | | | | | | | | | | | | | | |
| IP Rating | | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 54 | 54 | 23 | 23 | |
| | w/Gasket | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | | | |

| Expl | osion-p | roof | Signa | I Tow | er | | | | | | | |
|--------------|-----------|------|-------|--------|--------|---------|---------|---------|-------------|---|-----------|-------|
| | | | | | | | | | | 777777777777777777777777777777777777777 | | |
| Model | | EDLM | EDWM | AR-070 | AR-078 | EHS/EHV | LKEH-FV | LKEH-FE | CLN | CLK | CLA | RES-A |
| Page N | | 5 | 0 | 52 | 53 | 55 | 5 | 4 | 56 | 57 | 58 | 59 |
| | DC12V | | | | | | | | | | | |
| | DC24V | | | | | • | | | | • | • | |
| | AC24V | | | | | | | | | | | |
| | DC48V | | | | | | | | | | | |
| Voltage | AC100V | | | | | | | | | | | |
| voltage | AC120V | | | | | | | | | | | |
| | AC90-250V | | 0 | | | | | | | | | |
| | AC220V | | | | | | | | | | | • |
| | AC230V | | | | | | | | | | | |
| | AC240V | | | | | | | | | | | |
| Zone | 1, 21 | | | | | | | | | | | |
| Zone | 2, 22 | | | | | • | | | • | | | |
| Conform | CE | | | | | • | | | | | | |
| Conforn | Ex | | | | | • | | • | | | | |
| IP Ratin | ng | 66 | 66 | 65 | 65 | 65 | 54 | 54 | 66G/67G/69K | 66G/67G/69K | 66/67/69K | 66 |

| | | , , | | | 7 | | | |
|--------|------------|-------|-----|-----|-----|-------|-------|------|
| | 162 | | | 182 | 186 | 187 | 204 | |
| KP-A | SKHB-1006D | SKL-A | RLR | HP | KG | SKC-A | SKV-A | HKFM |
| 141 | 140 | 137 | 146 | 143 | 144 | 138 | 139 | 145 |
| | | • | | • | • | • | • | |
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| | | | | _ | | | | |
| 23 | 23 | 23 | 66 | | 23 | 23 | 66 | |
| 23 | 23 | 23 | 00 | | 23 | 23 | 00 | |

| Cube Tov | ver | | | |
|------------------|-------------|---------|---------|-----------|
| | | | | |
| Size (mm) | | 70 x 70 | 82 x 82 | 116 x 116 |
| Model | | KUS | KJS(B) | KJ(B) |
| Page No. | | 148 | 150 | 152 |
| | DC12V | | • | |
| | DC24V | | • | |
| Voltogo | AC24V | • | | |
| Voltage | AC100V | • | • | • |
| | AC120V | • | • | • |
| | AC220V | • | • | • |
| Body Color | Ivory White | • | • | • |
| Alarm Function | dB | 80 | 85 | 85 |
| | Tones | 1 | 1 | 1 |
| Transiator Innut | PNP | | • | |
| Transistor Input | NPN | | | |
| IP Rating | | 54 | 23 | 23 |

| | I Light | | | | | | | | | | |
|------------------|--|-------|----------|---------------------------------------|-----|-------|----------|-----|-------|-----|----------|
| Diameter | r (mm) | 57 | | 100 | | 107 | | 2 | 16 | | 187 |
| Model | | NE-24 | KHE | LFH | LFK | PEW-A | PES-A | PSE | KPE-A | XPE | XME |
| Page No | | 120 | 121 | 26 | 27 | 122 | 122 | 25 | 124 | 28 | 29 |
| Voltage | DC12V DC24V AC24V DC48V AC100-230V AC100V AC200V AC220V AC230V | | | • • • • • • • • • • • • • • • • • • • | • | • | • | © | • | © | <u> </u> |
| Body Color | White Silver Black | | • | • | • | • | • | • | | | |
| Transistor Input | PNP NPN | | • | | | • | | | | | |
| Sound F | unction | | | | | • | | | | | |
| IP Rating | w/Gasket | 65 | 23 55 | 66 | 55 | 54 | 23 55 | 23 | 23 | | |
| | w/Gasket | |] 55 | | | |] 55 | | | | |

| LED Li | ghts | | | | | | | | | | | | | | | | | |
|------------------|-----------------|-----|-----|-----|--------|------|------|------|-------|-----|---------------------|------------------|-----|-----|-------|--------|-----|-----|
| | | | | | | | | | 1 1 1 | | 7000000 72337300 | 2233 223333 | | | | | | |
| Model | | | | | CLA | | | | | | | LK | | | | LN | LP3 | LP5 |
| | | | | | | | | | -AG | -AG | -AS | -SG | -AG | -AS | -(P)T | -(P)T | | |
| Size (mm) | | 100 | 200 | 300 | 600 | 900 | 1200 | 1500 | 200 | | 300 | | 60 | 00 | | x85 | 110 | 240 |
| Page No. | | | 1 - | | 156 | _ | | | | _ | 1 | 58 | | | 2 | 20 | 30 | 31 |
| Voltage | DC24V | | | | | | | | | | | | | | • | | _ | _ |
| vollago | DC12/24V | | | | | | | | _ | _ | _ | | _ | _ | | | • | • |
| Body Material | Aluminum | | | | | | | | | | | | | | | | | |
| | Stainless Steel | - | _ | _ | _ | _ | _ | _ | _ | _ | | • | _ | | | | | |
| | Polycarbonate | | | | | | | | | | | | | | | | | • |
| | Tempered Glass | | | | | | | | • | • | _ | • | • | | • | | | |
| Cover | PMMA Resin | | | | | | | | | | • | | | | | | | |
| | Polycarbonate | • | • | • | • | | | • | | | • | | | • | | | • | • |
| | Daylight | | | | | | | | • | | • | | | | | | | |
| | Natural White | • | • | • | • | • | • | • | • | • | | • | • | | • | | | |
| Liaht | Warm White | | | | | | | | | | | | | | • | | | |
| Light Color | Red | | | | | | | | | | | | | | | | • | • |
| | Amber | | | • | | | | | | | | | | | | | | • |
| | Blue | | | | | | | | | | | | | | | | • | • |
| | White | | | | | | | | | | | | | | | | | • |
| Destru | Water | • | • | • | • | • | • | • | • | • | | • | • | • | • | • | • | • |
| Resistance | | | | | | | | | | | | | | | | | | |
| ID Doting | Dust | • | | | 6/67/6 | 2014 | | | | | 660/6 | 7G/69 | | | eeC/c | 70/60/ | • | |
| IP Rating | | | | Ь | 6/67/6 | 9N | | | | | 006/6 | 7 G/69 | n. | | 000/0 | 7G/69K | | - |



| Audib | le Alarms | & A | lnnu | ncia | tors | | 10 | | | | | | |
|------------|--------------|-----|------|------|------|-----|-------|---------|-------|-------|---------|--------|----------|
| | | | 0 | | | | | Mary 13 | Many | | | | |
| Model | | ВМ | ВМ-Н | BM-D | BD | BK | BSV | BDV | BKV | EHS | EHV | EWHS | FV-127JP |
| Page No | | | 162 | | 164 | 166 | 176 | 178 | 180 | 2 | 22 | 168 | 182 |
| | DC12V | | | | • | • | | • | • | • | • | • | |
| | DC24V | | | | • | | | | | | • | • | |
| | AC24V | | | | | | | | | | | | |
| Voltago | DC48V | | | | | | | | | | | | |
| Voltage | AC100V | | | | • | | | | | | | • | |
| | AC120V | | | | | | | | | | | • | |
| | AC200V | | | | | | | | | | | • | |
| | AC220V | | | | | | | | | | | • | |
| | Ivory White | | | | | • | • | • | • | • | | • | |
| Body | Red | | | | | | | | | | | • | |
| Color | Yellow | | | | | | | | | | | • | |
| 00101 | Black | | | | | | | • | | • | | | |
| | Silver | | | | | | • | | | | | | |
| Sound | dB (at 1m) | 80 | 90 | 80 | 90 | 95 | 87 | 87 | 95 | 110 | 105/110 | 105 | |
| Function | Melody/Alarm | | | | | • | _ | _ | _ | _ | | • | |
| | MP3 | | | | | | | • | • | | | | • |
| Channel | | 2 | 2 | 2 | 4 | 8 | 4(15) | 4(15) | 5(31) | 8(32) | 8(63) | 1 | 7(127) |
| | Sounds (sec) | | | | 32 | 32 | 63 | 63 | 63 | 31 | 63 | | 480 |
| Sound R | | | | | | | | | | • | | _ | • |
| Transistor | | | | | | | | | | | | | • |
| Input | NPN | | | | | • | • | • | • | • | | • | • |
| IP Rating | | - | - | 34 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 53(65) | - |

| Hybri | d Annuncia | tors | | A. W. | A. S. S. | | | |
|--------------------------|---------------|---------|---------|-------|----------|---------|---------|----------|
| | | | | | | | | alamina. |
| Model | | LKEH-FE | LKEH-FV | RFT | RFV | RT-FE | RT-FV | KJT |
| Page No | | 186 | | 188 | 190 | 192 | | 194 |
| | DC24V | • | | • | | | | |
| | AC24V | | | | | | | • |
| Voltage | AC100V | • | | • | | | | |
| | AC200V | | | | | | | |
| | AC220V | • | | | | | | |
| 0 | dB (at 1m) | 10 | 05 | 90 | 90 | 105 | 105 | 95 |
| Sound Function | Melody/Chimes | • | | • | | | | |
| l diletion | MP3 | | | | | | | |
| Channel | Inputs | | 32 | | 15 | | 8 | 4 |
| Playback Duration (sec.) | | | 63 | | 63 | | 32 | 16 |
| Transistor PNP | | • | • | | | | | |
| Input | NPN | • | • | • | | | | • |
| IP Rating | 1 | 53 | 53 | 54 | 54 | 23 (65) | 23 (65) | 23 |

Symbols Used in this Catalog

Light Source



High-intensity LEDs with about 60,000 hours worth of service life and low power consumption that outlasts any bulb.

Daylight **Warm White**



Temperature Color LEDs with a service life longer than incandescent and flourescent, but with lower power consumption.

Bulb



Economical and readily available from PATLITE.

Halogen 🗈



Small and bright halogen bulb with long-life.

Sounds

Electronic , Sound

Alarm with sounds that are easy to recognize and gentle on the ears.

4 Channels

The number of channels available when dividing the total recording time to making several different messages.

85_{dB at 1m}

Maximum sound pressure level based on controlled environmental conditions and recorded contents (such as melodies, alarms or messages).

63 Seconds

The maximum recording time using the standard bit rate for the product. (Standard bit rate is usually 64kb/sec)

Some of PATLITE's audible alarm products may contain copyrighted music or songs which Patlite has not applied for permission to use outside Japan, so please contact your local copyright association before using certain audible alarm products. This disclaimer may not apply if the copyright association has not claimed the copyright of the music or songs in a particular country or jurisdiction.

Protection Resistance

Protection Resistance classification for dust-proof, water-proof, and water-jet resistance based on ingress protection index. (CEI/IEC 529).

Explosion-Safe

Meets ATEX, NEC, CE and most other applicable Explosion-Safe standards.

Specifications

Φ65

The diameter size to fit into solutions like compact sized installations to fit perfectly onto that machine.

Dual-face Reflector

The symmetrical dual-face reflectors emit a powerful rotating light.

Network

Use the latest technology in network protocol to communicate between product and machine or product-to-product.





Products that emit sounds or voices, or both.

NPN/PNP **Open-collector**

Open collector allows direct connection to a PLC without the use of voltage-contact relays, etc.

Cable



Most products come with stranded wiring, but this corresponds to PATLITE products that offer cables as a standard or optional item.

「erminals 📾

PATLITE now offers products that come with terminal connections to meet customer demands for easier wiring options.









Sounds that are gentle on the ears in familiar sounds like melodies, and distinguishable alarms, along with MP3 programmable messages.

New Products





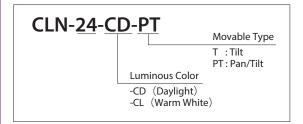
Water and Oil resistant high-power LED Work Light with an illuminance of 820 lx.

Industry's thinnest design at 22.2mm.

*The industry's first based on corporate investigation

- Made of aluminum alloy and tempered glass which is resistant to water, oil and coolants.
- Special design disperses heat radiation with illumination to surpass a 40W light bulb.
- The product lineup includes two colors (Daylight, Warm White) and two bracket options of Tilt (forward and back) or Pan & Tilt (forward, back and swivel left & right) to adapt to various scenarios.
- The operating temperature range of -40 to +60°C allows installation in sub-freezing temperature environments, such as cold storage warehouses.
- · Conforms to CE and RoHS requirements.
- UL Listed (File No. E306141).

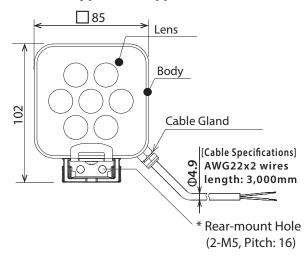
How to Order



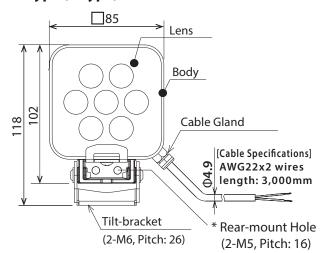
Specifications

| Model | | CLN-2 | 24-[_]-T | CLN-2 | 24-[_]-PT | | | |
|--|----|--|-------------------------|---------------|-----------------|--|--|--|
| Color Code (Color) | | CD (Daylight) | CL (Warm White) | CD (Daylight) | CL (Warm White) | | | |
| Color Temperature (typ.) | | 6500K | 2700K | 6500K | 2700K | | | |
| Illumination (typ.) (Centered at DC 24V) | 1m | 820 lx | 620 lx | 820 lx | 620 lx | | | |
| Total Luminous Flux (typ.) | | 550 lm | 550 lm 330 lm 550 lm 33 | | | | | |
| Rated Voltage | | DC 24V (Polarized) | | | | | | |
| Operating Voltage Range | | DC 24V ±10% | | | | | | |
| Protection Rating | | IP66G/67G (JIS C 0920)/69K (DIN 40050 part 9) (excluding Cable ends) | | | | | | |
| Mounting Location/Direction | | | Indoor / A | ny Direction | | | | |
| Mass (Tolerance ±10%) | | 36 | 60g | 4 | 30g | | | |

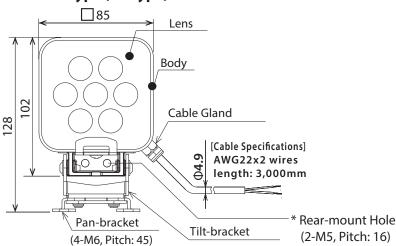
• Rear-mount Type (T/PT Type)



Tilt Type (T Type)



• Pan/Tilt Type (PT Type)



Features





H a s tilt adjustment of 180°, and can be folded up to a width of 33mm, making it easier to mount.

Floor Mount Example



Wall Mount Example



Ceiling Mount Example



Pan/Tilt Type (T Type)

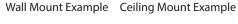


Adjusts to 120°

Has tilt adjustment of 180° with a pan angle of 120°, and can be folded up to a width of 43mm. Horizontal wall-mounting and free adjustment for % The tilt & pan/tilt brackets can also be removed for Rear Attachment applications. any application.

Floor Mount Example







EHS/EHV MP3 Alert/Melody/Alarm Horn 110_{dB at 1}









MP3 Alert/Melody/Alarm Horn

EHV 63 Channels (Binary)

220 Seconds

IP65

NPN/PNP **Open-collector**

Cable



Terminal 🖮







Exceptional Sound Quality Field Programmable MP3 Melody/Alarm Horn

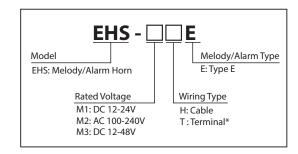
FEATURES

- EHS comes with 32 preloaded melody and alarm sounds with adjustable volume up to 110dB (@ 1m).
- EHV comes with 63 preloaded crisp and clear melody and alarm sounds with adjustable volume up to 110dB (@ 1m).
- EHV offers a field-programmable MP3 function with a maximum of 220 sec. of recording time (@ 64bps) and an adjustable volume up to 105dB (@ 1m).

1 Mode

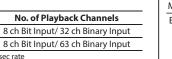
- Ideal for plant-wide notification, public address and process control.
- Robust, indoor and outdoor use with vibration resistance up to 4.5G.
- Protection Rating of IP65.
- UL464, CSA-C22.2 NO.205-M1983, FCC Part 15 Subpart B Class 4.
- · CE, RoHS Compliant (EHS-M1 and EHV-M1 Only).

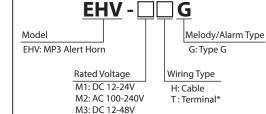
How to Order



EHS vs EHV (Functionality Comparisons) Model Onboard Sounds MP3 Playback **Playback Modes**

⁶³ Sounds 4 Modes Yes3 * Internal Memory size of 2 Mbytes, maximum playback of 220 seconds at a 64kbit/sec rate



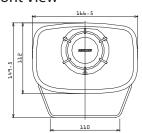


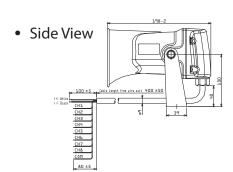
^{*} Terminal type not available for EHS-M3 or EHV-M3

Dimensions

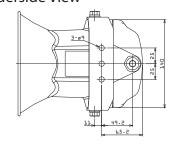
32 Sounds

Front View





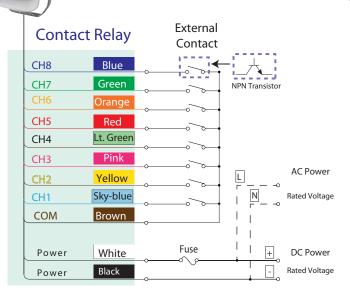
Underside View

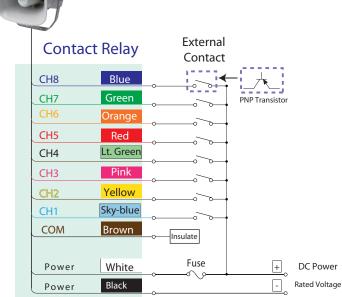


Wiring

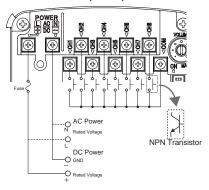
Non-voltage (NPN) Wiring



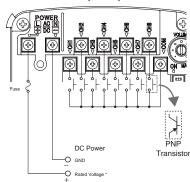












| Transistor Capacity (NPN & PNP) | | | | | | |
|---------------------------------|--------------------------|--|--|--|--|--|
| Current Capacity | $I_{c} \geq 15mA$ | | | | | |
| Current Leakage | $I_L \leq 0.1 \text{mA}$ | | | | | |
| Withstand Voltage | V _C ≥ 35V | | | | | |
| ON Voltage(V _{sat}) | Less than 1V | | | | | |

| Recommended Fuse | | | | | | |
|------------------|----------|--|--|--|--|--|
| Rated Voltage | 250V | | | | | |
| Rated Current | 1A | | | | | |
| Fuse Type | Standard | | | | | |

| Maximum Inrush | n Current |
|----------------|-----------|
| EHM1 | 12.5A |
| EHM2 | 23.0A |
| EH -M3 | 45.0A |

Specifications

EHS

| Model | Rated Voltage | Voltage Range | Power Consumption | Sound Pressure | Operating Temperature Range | No. of Playback Messages | Protection Rating | Wiring Type | Mass |
|----------|------------------|-------------------|--|------------------------------|---|----------------------------------|-------------------|-------------|--------|
| EHS- M1H | DC 12 24V | DC 10.8V to 26.4V | 5.0W (DC24V NPN, Non-voltage Contact) | | | | | Cable | 1.25kg |
| EHS- M1T | DC 12 - 24V | DC 10.8V to 26.4V | 5.9W (DC24V PNP, Voltage Contact) | | 2205 - 205 | BU | | Terminal | 1.23Kg |
| EHS- M3H | DC 12 - 48V | DC 10V to 60V | 5.1W (DC48V NPN, Non-voltage Contact) | Alarm: Max. 110dB (at 1m) | -20°C to +50°C (85% RH or less) | Bit Input: 8 Binary Input: 32 | IP65 | Cable | 1.15kg |
| EHS- M2H | AC 100 - 240V | AC 90V to 264V | 6.9W (AC240V NPN, Non-voltage Contact) | , | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , , | | Cable | 1.25kg |
| EHS- M2T | AC 100 - 240V | AC 90V to 204V | 0.9W (AC240V NFN, Non-Voltage Contact) | | | | | Terminal | 1.23kg |

EHV

| | Model | Rated Voltage | Voltage Range | Power Consumption | Sound Pressure | Operating Temperature Range | No. of Playback Messages | Protection Rating | Wiring Type | Mass |
|---|----------|------------------|-------------------|---|------------------------------|---|----------------------------------|-------------------|-------------|--------|
| | EHV- M1H | DC 12 - 24V | DC 10.8V to 26.4V | 4.0W (DC24V NPN, Non-voltage Contact) | | | | | Cable | 1.25kg |
| Ī | EHV- M1T | DC 12 - 24V | DC 10.8V to 26.4V | 5.0W (DC24V PNP, Voltage Contact) | Alarm: Max. 110dB (at 1m) | 0 0 | | | Terminal | 1.23Kg |
| ſ | EHV- M3H | DC 12 - 48V | DC 10V to 60V | 5.6W (DC48V NPN, Non-voltage Contact) | , | -20°C to +50°C (85% RH or less) | Bit Input: 8 Binary Input: 63 | IP65 | Cable | 1.15kg |
| ſ | EHV- M2H | AC 100 - 240V | AC 90V to 264V | 5.3W (AC240V NPN, Non-voltage Contact) | MP3: Max. 105dB (at 1m) | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Smary inputios | | Cable | 1 251 |
| ſ | EHV- M2T | AC 100 - 240V | AC 90V to 264V | 5.599 (AC2409 NPN, Non-Voltage Contact) | IFIGA. TO SUB (at TITI) | | | | Terminal | 1.25kg |

Note 1: The sound pressure level is based on measurements under controlled conditions (voice-synthesized 1 kHz sine wave played back from a distance of 1 meter), therefore the surrounding environmental conditions and message content will result in different values for the sound pressure level.

4 Playback Modes

Normal Playback Designated audio message is played back by distinctive signal input. Audio message is played back once in case of one shot input, and audio message is repeated when the signal is input continuously.

Memory Playback

Up to 23 audio message inputs can be memorized in order of input. After one playback is finished, the next memorized audio message will be played back. The inputs exceeding the limit will not be memorized.

Latest Input Priority Playback When a signal is input during a message playback, the current message playing back will be stopped, and the message of the signal input will be played instead.

Momentary Playback Audio message is played back only while the signal input is maintained. Playback will be stopped when the signal input is stopped.

Get the Playlist Editor 2 (free from PATLITE)

- Contact us by E-mail located on the back of this catalog.
- Convert any message into MP3 data and save it onto an SD Card (with the use
 of the Playlist Editor 2).
- Insert the SD Card into a PATLITE MP3 product for easy programming.

| Application Software | Usable | Outline | | | |
|---------------------------|--------|--|--|--|--|
| PATLITE Playlist Editor 2 | Voc | This is a newer version of the PATLITE Playlist Editor. A playlist package can be created and the MP3 data and channel function assignment for the product can be rewritten. | | | |
| FV-Win | | This product is not compatible with the playlist | | | |
| PATLITE Playlist Editor | | created by FV-Win or the PATLITE Playlist Editor. However, the playlist can be changed into a playlist package using the PATLITE Playlist Editor 2. | | | |

| Type-F (For Japan On | | | | |
|------------------------------|------------------------|----------------------------------|-----------------------------|-----------------------------------|
| Beep (slow intermittent) | Spring Melody | A Maiden's Prayer | Itsy Bitsy Spider | BANZAI SUKIDE YOKATTA |
| Stutter (rapid intermittent) | Game Intermission | Bach Minuet in Gmaj | The Music Man | NAMONAKI UTA |
| Bell (clear high-pitch) | Jalopy Horn | Annie Laurie | Spanish Romance | SOUSEINO AKUERION |
| Yelp (rapid siren) | Galactic Doorbell | London Bridge is falling down | Katyusha | MAMBO NO 5 |
| Rapid Hi-Lo | RR-crossing | Holdiridia | Ave Maria | The Parade of the Tin Soldiers |
| Melody Chime | Digital Train Whistle | Mary had a little Lamb | Grandfather's Clock | Turkey in the Straw |
| Synthesized Piano | Train Ride | The Camptown Races | RHYTHM AND POLICE | Aka tombo |
| Synthesized Bell | Starting Notice Chime1 | Cuckoo Song | ZANKOKUNA TENSHINO TEEZE | Funiculi, Funicula |
| Stutter + Bell | Starting Notice Chime2 | MURANO KAJIYA | MAJINGAA ZETTO | Furusato |
| Melody Chime | Starting Notice Chime3 | On the Bridge of Avignon | HATARAKU KURUMA | Beautiful Dreamer |
| Chime | Ending Notice Chime1 | Daydream Believer | NINGENTTE IINA | JOLLY HOLIDAY |
| Call Sign | Ending Notice Chime2 | Amaryllis | ROBINSON | |
| Galactic Hovercraft | Fur Elise | Mozart Symphony No. 40 | WORLD FOOTBALL ANTHEM | |

| Type-G | | | (A | II Countries) |
|------------------------------|---------------------|----------------------------------|--------------------------------------|-----------------------------|
| Beep (slow intermittent) | Galloping Hi-Lo | Galactic Doorbell | Mozart Symphony No. 40 | Polka Tramblanka |
| Stutter (rapid intermittent) | Alien Chatter | RR-crossing | Ave Maria | O Vreneli |
| Bell (clear high-pitch) | Falling Crystals | Starting Notice Chime1 | Grandfather's Clock | KAERUNO GASSHOU |
| Yelp (rapid siren) | Inverted Reveille | Starting Notice Chime2 | The Parade of the Tin Soldiers | El Condor Pasa (If I Could) |
| Rapid Hi-Lo | Galactic Motor | Ending Notice Chime1 | If You're Happy and You Know It | Hungarian Dance No.5 |
| Melody Chime | Ringing Phone | Ending Notice Chime2 | Flea Waltz | William Tell Overture |
| Synthesized Piano | Two Tone | Fur Elise | Turkey in the Straw | Pomp and Circumstance |
| Synthesized Bell | Alarm Clock | Bach Minuet in Gmaj | The Battle Hymn of the Republic | Comedians' Galop |
| Stutter + Bell | Ringing Hi-Lo | Annie Laurie | J'ai perdu le do de ma clarinette | Nedelka |
| Melody Chime | Galactic Hovercraft | London Bridge is falling down | Can-can | Moonlight Serenade |
| Chime | Spring Melody | Mary had a little Lamb | Radetzky March | WAREWA UMINO KO |
| Call Sign | Game Intermission | The Camptown Races | Funiculi, Funicula | |
| Train Ride | Jalopy Horn | Amaryllis | Csikos Post | |

| Type-A | | (For | Japan Only) |
|-------------------------------|------------------------------|--------------------------|-----------------------|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Stutter + Bell | Synthesized Melody Chime | Chime | Call Sign |
| Fur Elise | Maiden's Prayer | Bach Minuet in Gmaj | Annie Laurie |
| London Bridge is falling down | Hol-di-ri-Dia | Mary had a little Lamb | Camptown Races |
| Cuckoo Song | Village Blacksmith | On the Bridge of Avignon | Daydream Believer |
| Amaryllis | Mozart Symphony No. 40 | Quiet Lakeside | Ich bin ein Musikante |
| Spanish Romance | Katyusha | Grandfather's Clock | Ave Maria |

| Type-C (For Japan Onl | | | |
|-------------------------------|------------------------------|-------------------------|------------------------------------|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Stutter + Bell | Synthesized Melody Chime | Chime | Call Sign |
| Can't take my eyes off of you | Top of the World | The Entertainer | Amazing Grace |
| Amairono Kamino Otome | Les Champs-Elysees | Canon | Rara Sunshine |
| Uchuusenkan Yamamoto | Oshiete | Makenaide | Gonna Fly Now (Theme from "Rocky") |
| I don't Wanna Miss a Thing | Yozorano Mukou | Aiwa Katsu | Haruyo Koi |
| Gattsudaze | Odoru Ponpokorin | lmasugu Kisu Mi | Truth |

| Type-D | | (For | Japan Only) |
|-----------------------------------|--------------------------------|--------------------------------|------------------------|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Runner | Mamotte Agetai | Chime | Call Sign |
| Iribiao Kikinagara | September | Doyoubino Koibito | Akino Kehai |
| Saafu Tengoku Sukii Tengoku | Iro White-blend | Happy Birthday | Hi Ho |
| I've been working on the Railroad | The Bear Song | Toys Go "Cha-cha-cha" | Konnako Irukana |
| Schubert's Lullaby | Rudolph the red-nosed Reindeer | She Wore a Yellow Ribbon | My Darling, Clementine |
| Yellow Rose of Texas | Yankee Doodle | When the Saints Go Marching In | Londonderry Air |

| Type-E | | (A | All Countries) |
|------------------------------|------------------|---------------------|----------------------------------|
| Beep (slow intermittent) | Stutter + Bell | Inverted Reveille | Annie Laurie |
| Stutter (rapid intermittent) | Melody Chime | Galactic Motor | London Bridge is falling down |
| Bell (clear high-pitch) | Chime | Ringing Phone | Mary had a little Lamb |
| Yelp (rapid siren) | Call Sign | Two Tone | Camptown Races |
| Rapid Hi-Lo | Train Ride | Alarm Clock | Amaryllis |
| Melody Chime | Galloping Hi-Lo | Ringing Hi-Lo | Mozart Symphony No. 40 |
| Synthesized Piano | Alien Chatter | Fur Elise | Ave Maria |
| Synthesized Bell | Falling Crystals | Bach Minuet in Gmaj | Grandfather's Clock |

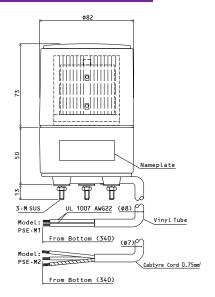
Use of Copyrighted Material

PATLITE Corporation has not applied for permission to use certain copyrighted music or songs recorded for Type-A, Type-C, Type-D and Type-F melody charts outside of Japan. Therefore, please contact the local copyright association for permission before using the product in case this product is used outside of Japan. Melody charts Type-E and Type-G are recommended for use outside of Japan as this playlist does not include copyrighted music or songs, and permission is not required.



New LED flashing beacon! Can outlast a conventional Xenon lamp and is available in four LED Colors.

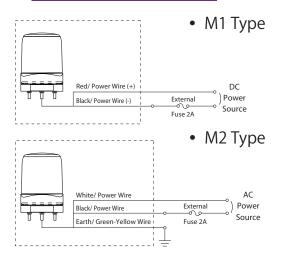
Dimensions



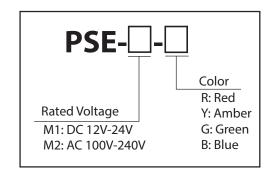
Specifications

| Model | PSE-M1 PSE-M2 | | | |
|--|---------------------------|--|--|--|
| Rated Voltage | DC 12V - 24V AC 100V-240 | | | |
| Power Consumption | 2.4W (max.) 3.2W (max.) | | | |
| Maximum Operating Ambient Temperature | 60°C | | | |
| Protection Rating | IP23 | | | |
| Mounting Location | Indoor or Outdoor Use | | | |
| Flash Rate | 110 ±10rpm (Triple-flash) | | | |
| Mass | 0.30kg 0.35kg | | | |

Wiring



How to Order



LFH

LED Signal Light





LED

IP66

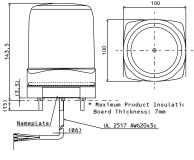
Φ100



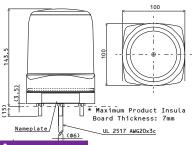
New LED flashing beacon! Available in five outdoor visible LED Colors and has UL certification.

Dimensions

• LFH



• LFH-M1

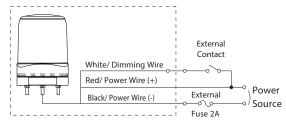


Specifications

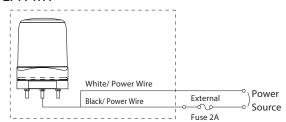
| Model | LFH-12 | LFH-24 | LFH-48 | LFH-M2 |
|--|----------------------------------|--------|--------|-------------------|
| Rated Voltage | DC 12V | DC 24V | DC 48V | AC 100 - 240V |
| Current Consumption (max) | 0.50A | 0.23A | 0.18A | 0.12A |
| Operating Ambient Temperature Range | 1 -30°C to ±70°C 1 | | | -20°C to +60°C |
| Protection Rating | IP66 | | | |
| Mounting Location | Indoor or Outdoor Use | | | |
| Flash Rate | 110 ±10fpm (Triple-flash) | | | |
| Certifications | UL, CE ^{*1} , RoHS, FCC | | | |
| Mass | 0.57kg 0.61kg | | | |

Wiring

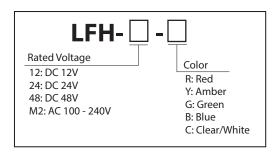
• LFH



• LFH-M1



How to Order



LFK





(A) LED

IP55

Φ100

New LED flashing beacon! So bright, it has a dimming input.

Dimensions Wiring 100 External 143.5 Contact 00 White/ Dimming Wire Red/ Power Wire (+) Power External Black/ Power Wire (-) ∘ [/] Source * Maximum Product Insulation Fuse 2A Board Thickness: 7mm UL 2517 AWG20x3c From Bottom (300)

Specifications

| Model | LFK-12S | LFK-24S | LFK-48S | |
|--|------------------------------|---------|---------|--|
| Rated Voltage | DC 12V | DC 24V | DC 48V | |
| Current Consumption (max) | 0.49A 0.19A 0.17/ | | | |
| Operating Ambient Temperature Range | -20°C to +60°C | | | |
| Protection Rating | IP55 | | | |
| Mounting Location | Indoor or Outdoor Use | | | |
| Flash Rate | 140 ±14fpm (Triple-flash) | | | |
| Certifications | CE ^{*1} , RoHS, ECE | | | |
| Mass | 0.5kg | | | |

*1 LFK-48 not CE certified.

Rated Voltage 12: DC 12V 24: DC 24V 48: DC 48V Color R: Red Y: Amber G: Green B: Blue C: Clear/White



LED (Ω)
IP23
Φ162



New LED flashing beacon! Available in four LED Colors.

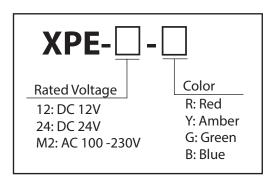
FEATURES

- Long-lasting LED's greatly reduce maintenance costs.
- Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Main Body is made of impact and heat-resistant ABS resin.
- Dome lens is made of superior weather-resistant and light-translucent AS resin.
- Available Colors are Red, Amber, Green, and Blue.

Specifications

| Model | XPE-12 | XPE-24 | XPE-M2 |
|----------------------------------|-----------------------------------|-------------|----------------|
| Rated Voltage | DC 12V | DC 24V | AC 100 - 230V |
| Voltage Range | DC 9.5-15V | DC 20 - 28V | AC 90 - 250V |
| Current Consumption | 0.50A | 0.23A | 0.12A |
| Operating Ambient Temperature | -30°C to +70°C | | -20°C to +60°C |
| Protection Rating | IP23 | | |
| Mounting Location | Indoor or Outdoor Use | | |
| Flash Rate | 110 ±10fpm (Triple-flash Pattern) | | |
| Certifications | RoHS | | |

How to Order





New Large Sized LED flashing beacon! Available in three LED Colors.

FEATURES

- Extended product lifespan by using LED lights.
- · Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Main body is made of a melamine baked finish with a corrosion-proof stainless steel (SUS 304) lens mounting fixture.
- Dome lens is made of superior weather-resistant and light-translucent AS resin.
- Mounting Bolts are drip-proof and made of rust-free stainless steel.
- Available Colors are Red, Amber, and Blue.

Specifications

| Model | XME-12 | XME-24 | XME-M2 |
|----------------------------------|-----------------------------------|-------------|----------------|
| Rated Voltage | DC 12V | DC 24V | AC 100 - 230V |
| Voltage Range | DC 9.5-15V | DC 20 - 28V | AC 90 - 250V |
| Current Consumption | 0.50A | 0.23A | 0.12A |
| Operating Ambient Temperature | -30°C to +70°C | | -20°C to +60°C |
| Protection Rating | IP23 | | |
| Mounting Location | Indoor or Outdoor Use | | |
| Flash Rate | 110 ±10fpm (Triple-flash Pattern) | | |
| Certifications | RoHS | | |

How to Order

| XME- 🔲 - | · <u> </u> |
|--|--|
| Rated Voltage 12: DC 12V 24: DC 24V M2: AC100 - 230V | Color R: Red Y: Amber B: Blue |

LP3

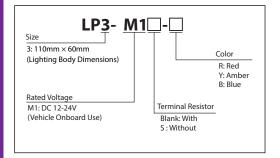
LED Signal Light

LED

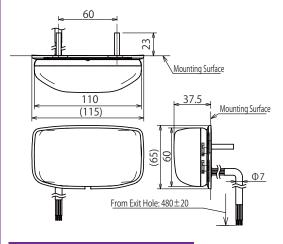




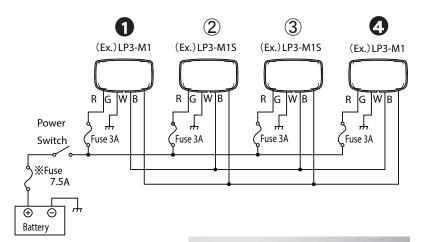
How to Order



Dimensions



Wiring Example (Cascading)





Specifications

| | Model | Rated Voltage | Operating Voltage Range | Current Consumption | Flash Pattern | Operating Temperature Range | Color | Mass |
|---|--------|------------------|----------------------------|------------------------|------------------|-----------------------------------|------------------|------|
| I | LP3-M1 | DC12/24V | DC 9.5 - 30.0V | Max.: 0.7A | Triple-flash | -30°C - +75°C | Red, Amber, Blue | 250g |



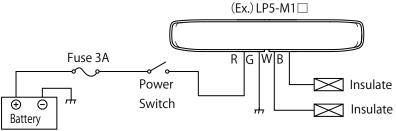








Wiring Example (Individual)

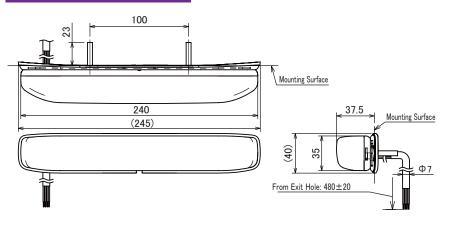


LP5 - M1□-□ Size 5: 240mm × 35mm

Color (Lighting Body Dimensions) R: Red Y: Amber Rated Voltage Terminal Resistor W: White M1: DC 12-24V Blank: With (Vehicle Onboard Use)

How to Order

Dimensions



BEREERE

Specifications

| Model | Rated Voltage | Operating Voltage Range | Current Consumption | Flash Pattern Operating Temperature Range | | Color | Mass |
|----------|------------------|----------------------------|------------------------|--|---------------|------------|------|
| LP5-M1 | | | | Triple-flash | | Red, Amber | |
| LP5-M1-W | DC12/24V | DC 9.5 - 30.0V | | Continous Lighting | -30°C - +75°C | White | 300g |

| MEMO | | | |
|------|------|------|--|
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For more details, visit our website at http://www.patlite.com

Network Products



WD

Wireless Data Acquisition System

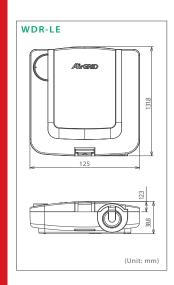


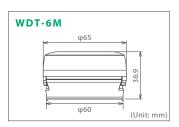
Monitor remotely and collect data wirelessly from a PATLITE Signal Tower

PATLITE wireless add-on modules and receivers make PATLITE Signal Towers capable of sending electrical signals over a wireless network to a data center. PATLITE wireless add-on modules and receivers are a uniquely practical and economical solution for data acquisition, machine status remote monitoring, and supervisory control of industrial processes. The "AirGRID" is an effective solution for lean manufacturing and a visual factory. PATLITE wireless add-on modules comply with IEEE802.15.4, operating in the 2.4 GHz band.

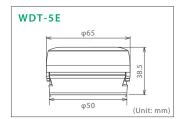
- 1) Simply add-on to a PATLITE Signal Tower
 Operating conditions of Patlite signal towers installed on production machines or process systems can be transmitted wirelessly to a data center. Data acquisition and remote monitoring are possible instantly and economically.
- 2) Wireless technology of today eliminates tedious wire installation
 The "AirGrid" add-on wireless modules tap their power from the PATLITE Signal Towers and transmit their electrical signals to the data center. This can reduce wiring, component installation and other related costs.
- 3) Multi-hopping topology and high transmitting reliability
 With wireless multi-hopping, it minimizes potential transmitting failures or errors, adding a high level of stable operation and transmission reliability.

Dimensions



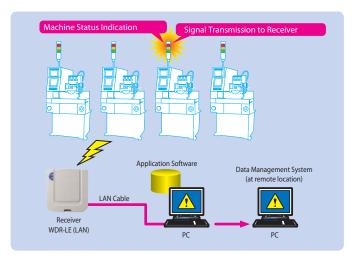




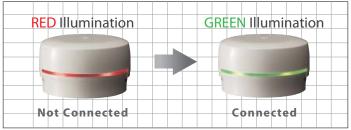


Typical Applications

- Multiple stand-alone machines can be networked by the AirGrid for data archiving and remote monitoring.
- The status and condition of the machines are indicated by the PATLITE signal towers



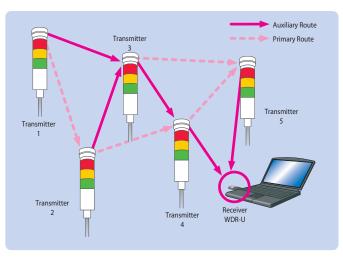
Network Connection Condition



* The transmitter is designed for PATLITE Model Series LME and LE Signal Towers. (As of Dec, 2012)

Wireless Concept IEEE 802.15.4 2.4GHz

- Wireless hopping/routing functions and mesh topology can make flexible and reliable wireless network configurations possible.
- Data archived by the AirGRID is stored in a file format CSV which any off-theshelf data management software e,g, SCADA can handle.



Transmitter Installation



Affix the transmitter adaptor on the Signal Tower and fasten it with the center screw. Then simply attach the transmitter to the bracket. (Some applications don't require additional wiring.)

Specifications

Transmitters

| Transmitters | | | | | | | | |
|-------------------------|--|---------------|--|--|--|--|--|--|
| Model | WDT-6M | WDT-5E | | | | | | |
| Applicable Signal Tower | Φ60 LME Series | Φ50 LE Series | | | | | | |
| Rated Voltage | DC 24V (No Polarity) | | | | | | | |
| Voltage Range | 20.4V - 26.4V DC | | | | | | | |
| Current Consumption | 35mA | | | | | | | |
| Operating Temperature | -10°C - +60°C (No Condensation) | | | | | | | |
| Storage Temperature | -20°C - +70°C (No Freezing) | | | | | | | |
| Relative Humidity | RH 85% or less | | | | | | | |
| Mounting Direction | Upright Position (Indoors Only) | | | | | | | |
| Protection Rating | Determined by PATLITE Signal Tower IP Rating | | | | | | | |
| Dimensions (mm) | Ф65 х 36.9 Ф65 х 38.5 | | | | | | | |
| Mass | 55g | | | | | | | |
| A L. DATINTE C.L. D | | | | | | | | |

Ask your PATLITE Sales Representative for AirGrid compatable PATLITE Signal Towers

Receiver

| Model | WDR-LE (LAN/USB) | | | | |
|-----------------------|--------------------------------------|--|--|--|--|
| Rated Voltage | DC 24V (Power Supply not included) | | | | |
| Voltage Range | DC 20.4V - 26.4V | | | | |
| Current Consumption | 150mA | | | | |
| Operating Temperature | -10°C - +60°C (No Condensation) | | | | |
| Storage Temperature | -20°C - +70°C (No Freezing) | | | | |
| Relative Humidity | RH 85% or less | | | | |
| Mounting Direction | Horizontal, Wall-mount (Indoors Only | | | | |
| Protection Rating | IP20 | | | | |
| Dimensions (mm) | 131(H)x125(W)x38.5(D) | | | | |
| Mass | 165g | | | | |

Features

| Wireless Standard | IEEE 802.15.4 for Zigbee 2.4GHz | | | | |
|-------------------------------|---|--|--|--|--|
| Frequency Bandwidth | ,400MHz - 2,483.5MHz (16 Channels at 5MHz Step starting from 2,405MHz) | | | | |
| Networking Connections | up to 20 Units (*1) | | | | |
| Antenna Output | Maximum 1mW | | | | |
| Compliances | FCC, CD (R&TTE), RoHS | | | | |
| (*1) Number of possible Units | to connect is based on the wireless environment and installation location | | | | |

- * This product operates on a frequency in compliance to FCC laws in the United States and its territories. Radio Laws for individual countries vary, and it is, therefore, the responsibility of the customer to comply with the laws in the country which applies to the application. Our company takes no responsibility directly, or indirectly, for claims from a customer or third party regarding Radio Laws or Wireless ordanance.
- * This product requires application software for configuration and data acquisition. For more information on the latest software and solution to fit the application, please contact your nearest PATLITE Sales Representative indicated on the backside of this Catalog.

NHL

Network Monitor Signal Tower









4 Alarm Sounds

80db at 1m

Φ60

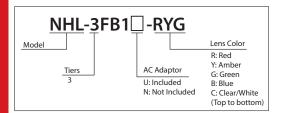
Network



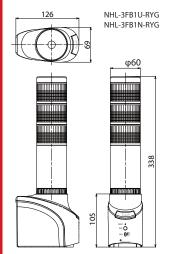
Network Monitoring With a New Look

- Not dependent upon the OS.
- Supports common protocols such as HTTP, SMTP, SNMP and includes RSH.
- Easily works with NMS (network management/integration / monitoring) software, etc.
- Easily controllable by the SNMP SET command and RSH commands.
- Conforms to the CE requirements. (AC Adaptor does not carry the CE mark.)
- Four different alarm sounds can be correlated to match the prioritized monitoring level.
- Contains the ICMP protocol so PING monitoring can be set up for a maximum of 24 nodes.
- Using the IP Address of the NHL Tower, detailed setup functions can be accessed via a browser.

How to Order

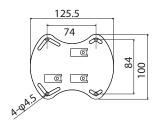


Dimensions





Upright Base (Standard Item)



Specifications

| Model | NHL-3FB1U-RYG | | | | NHL-3FB1N-RYG | | | | | |
|-------------------------|--|--|-------------|---------------|---------------|------------------|--------------|---------------|----------------|--|
| | Rated Voltage | AC 100V to 240V | | | - | | | | | |
| AC Adaptor | Operating Voltage Range | AC 90V to 264V | | | | | - | | | |
| | Rated Voltage | DC 24V | | | | | | | | |
| Main Unit | Power Consumption | Unit 2.0W | Red 1.5W | Amber 1.5W | Gre 0.8 | | Blue 0.8W | White 0.8W | Buzzer 2.0W | |
| Operating Temp | erature Range | 0°C - +40°C | | | | | | | | |
| Storage Tempe | erature Range | | | -1 | 0°C - | +60° | C | | | |
| Relative H | lumidity | | RH | of 20 to 8 | 1) %0 | No Co | ndensat | ion) | | |
| Vibration F | Resistance | | | | 19.6 | m/s ² | | | | |
| Protectio | n Rating | | | IP20 (N | Not V | /aterp | oroof) | | | |
| Alarm Sound | Audio Level | Three-position switch for "HIGH", "LOW", "OFF" "HIGH": 80dB or more "LOW": 70dB or less (Tested at 1m from diaphram in upright position) | | | | | | | | |
| Sound | Tone Pattern | Four distinctive patterns: (Slow Intermittent), (Fast Intermittent),(Fast Burst), (Continuous) | | | | | | | | |
| | "CLEAR" | Pushbutton Switch | | | | | | | | |
| Switches | "TEST" | Pushbutton Switch | | | | | | | | |
| Switches | "RESET" | Pushbutton Switch | | | | | | | | |
| | "BUZZER" | Slide Switch | | | | | | | | |
| | | Physical Layer: 10BASE-T/100BASE-TX (Auto-negotiation/Full Duplex/ Half Duplex) | | | | | | | | |
| | | Data Link Layer: CSMA/CD | | | | | | | | |
| Communication Method | Ethernet | Network Link Layer: IP / ARP / ICMP | | | | | | | | |
| Metriod | | Transport Layer: TCP / UDP | | | | | | | | |
| | | Application Layer: HTTP / RSH / SMTP / SNTP / POP / DNS / NTP / DHCP / Socket | | | | | | | | |
| Manuatina | Location | Indoors Only | | | | | | | | |
| Mounting | Direction | Desktop or Wall-mount in the Upright Position | | | | | | | | |
| Mass (AC Adapto | 800g | | | | | | | | | |
| Access | AC Adaptor, Rubber Feet, Adhesive Tape, Support Base Rubber Feet, Adhesive Tap Support Base | | | | | e Tape, | | | | |

Easy Integration for many system applications

PING Device Monitor

Monitors Device Existence on the Network

The NH Tower initiates PING interaction with network devices to verify existence of up to 24 nodes. When the response to a PING fails, a warning with light and sound occurs to alert administrators.

Among the 24 nodes, 12 nodes (13th - 24th) can be set up for more detailed monitoring parameters.



Application Monitor

The tower can monitor important background applications and signal the administrator upon any failure.

SNMP v1·v2c

Monitor networking equipment at a low cost

Many network devices (UPS, printers, routers, switches, etc.) generate SNMP TRAP messages when a failure occurs. The NHL tower can trigger a light and sound signal based on these SNMP TRAP messages to alert the administrator.



It can distinguish the various TRAPS. Register up to 16 groups (4 nodes per group).

Easy setup from a web browser

Detailed tower setup is accessed from a web browser directly to its IP Address. Firmware can also be upgraded remotely.



Web Setup Screen

Communication Commands for many customized applications

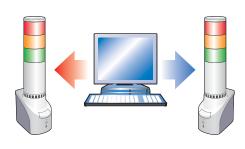
RSH

The RSH protocol is flexible with easily controllable commands.

With the use of Network integrated management software; event information obtained from various monitoring tools etc., can be used as a trigger to cause a combination of flashing and alarm patterns to sound in synchronicity with the event.

Event Occurence: Command Tier to light, alarm to sound.

RSH Example Code: rsh 192.168.10.1 -I root alert 111001



SOCKET Transmission

PHN Command Compatibility

Controlled with 2 byte commands.

- * Compatible with NHE-3FB, NHC-3FB, NHM-3FB, and PHN-3FBE1.
- Some functionality is limited.

Event Occurence: Command Tier to light, alarm to sound PHN Example Code: 0x57,0x17

New PNS Command Compatibility

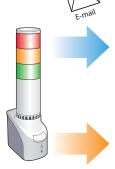
The PNS command can be used to control all pattern information.

*The PNS command is a unique command from PATLITE.

Event Occurence: Command Tier to sound alarm

PNS Example Code:

Diagnostic / Reporting/ Notification Features



E-mail Transmission

Send e-mail with a maximum of eight selectable events

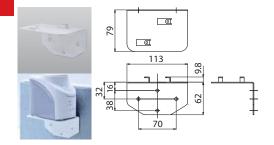
Up to eight events can be created and sent as a secure e-mail with the subject name and text corresponding to the event.

SNMP v2

SNMP TRAP Transmission

Can transmit from a maximum of eight network devices.

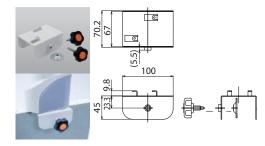
Options



Self-diagnosis



The test switch on the front of the Body can check the Signal Tower and alarm operation functions easily without it being controlled through the network.



LE-K3/WEP-K3



CompoNet Supported











2 Alarm Sounds (LE)
90db at 1m

1 Alarm Sound (WEP)

85_{db at 1m}

IP23

Network





DeviceNet Supported Signal Tower for Open-field Network

FEATURES

- Single cable uses CompoNet cable only, which transfers power and signals for control.
- Easy connection directly to 64 linkable CompoNet units with DeviceNet cable, without I/O terminals.
- Requires a CompoNet controller (i.e. CompoNet Master).
- · Address Data Storage setting with the internal DIP switch.
- Light Pattern is continuous only, no flashing available.
- Built-in alarm for B-type models such as; LE: 85dB at 1m (adjustable), WEP: 90dB at 1m.
- · Sound Patterns available are; LE: Intermittent tone, Alarm 1: short beep, Alarm 2: long beep. WEP: 1 alarm, continuous tone only.
- · Models include interchangeable modules*, no re-wiring necessary, even after installation (except for WEP type).

DIRECT MOUNT

LE-K3W LE-K3BW

POLE MOUNT

LE-K3P LE-K3BP

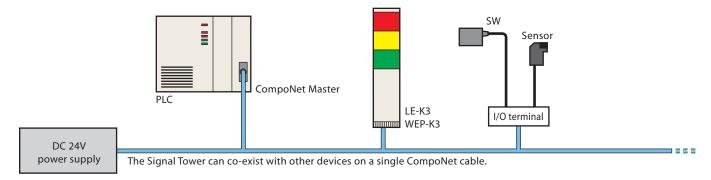
- PATLITE's exclusive Prism-Cut Lens designed for enhanced visibility from any direction and distance.
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Direct or pole mount installation.
- Main body is constructed of ABS resin with superior resistance to impact and heat.
- Lens is made of superior impact resistant and light translucent AS resin.

WEP-K3 WEP-K3B

- Clear vertical-cut lens for enhanced illumination over a wide perspective.
- Installation can be vertical and horizontal (Alarm type must have buzzer installed face-down).
- Lens made of superior impact and heat resistant polycarbonate resin for superior durability and enhanced illumination.

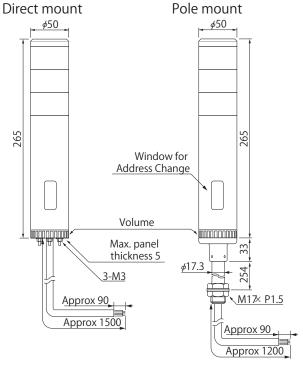
^{*}Refer to the standard models for details.

Application Example

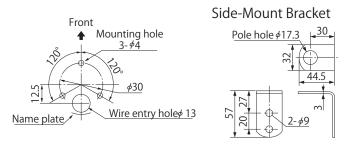


Dimensions

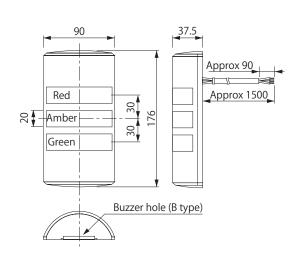


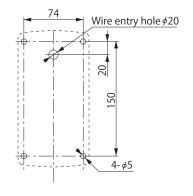


Mounting Dimension



WEP-K3





(Unit: mm)

| Wire Color | Signal |
|------------|--------------|
| BROWN | BS+ (24VDC) |
| BLACK | BS- (0V) |
| WHITE | BDH (H) Line |
| BLUE | BDL (L) Line |
| | |

| | | Stack | | Audible | Signal | | Current Consumption | | | | | | | | | | | | | | | | | | | | | | |
|---|--------|---------|-----------------|-----------------|-----------------------|----------------|---------------------|-------------------|---------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|------|-----------------------|---------------|------|
| | Series | Number | Model | Alarm Option | Line | Power Line | CompoNet PCB (Max) | LED Unit (| Max) | Audible Alarm | | | | | | | | | | | | | | | | | | | |
| Γ | LE | | LE-K3W/LE-K3P | N/A | | | | 25mA (Red, Amber) | 20mA (Green) | N/A | | | | | | | | | | | | | | | | | | | |
| | LE | 3 Tiers | LE-K3BW/LE-K3BP | Available | BDH | DH BS+ (24VDC) | BS+ (24VDC) | BS+ (24VDC) | BS+ (24VDC) | BS+ (24VDC) | BS+ (24VDC) | BS+ (24VDC) | BS+ (24VDC) | BS+ (24VDC) | BS+ (24VDC) | BS+ (24VDC) | BS+ (24VDC) | BS+ (24VDC) | BS+ (24VDC) | BS+ (24VDC) | BS+ (24VDC) | BS+ (24VDC) | BS+ (24VDC) | BS+ (24VDC) | | 60mA | ZJIIIA (Neu, AIIIbei) | Zonia (Green) | 40mA |
| Γ | WED | | BS- (0V) | BS- (0V) | 30mA (Red, Amber) 25m | 25mA (Green) | N/A | | | | | | | | | | | | | | | | | | | | | | |
| L | WEP | | WEP-K3B | Available | | | | Suma (Red, Amber) | Zonia (Green) | 40mA | | | | | | | | | | | | | | | | | | | |

LHE-C3/LE-C3/WEP-C3 CC-Link Supported







2 Alarm Sounds (LHE/LE)

90db at 1m

Alarm Sound (WEP)

85db at 1m

Network







CC-Link supported Signal Tower for Open-field Network

FEATURES

- Single cable uses CompoNet cable only, which transfers power and signals for control.
- Easy connection directly to 64 linkable CompoNet units with DeviceNet cable, without I/O terminals.
- Requires a CompoNet controller (i.e. CompoNet Master).
- Address Data Storage setting with the internal DIP switch.
- Light Pattern is continuous only, no flashing available.
- Built-in alarm for B-type models such as; LHE: 90dB at 1m (adjustable), LE: 85dB at 1m (adjustable), WEP: 90dB at 1m.
- Sound Patterns available are: LHE / LE: Intermittent tone, Alarm 1: short beep, Alarm 2: long beep, WEP: 1 alarm, continuous tone only.
- Models include interchangeable modules*, no re-wiring necessary, even after installation (except for WEP type).
- *Refer to the standard models for details.

LHE-C3 LHE-C3B

- Original LED reflection system to improve brightness and provide maintenance-free operation.
- Direct mount installation is standard; pole-mount is available with the optional mounting pole.
- Lens is made of superior impact and heat resistant AS resin for superior durability and light transmission.

DIRECT MOUNT

LE-C3W LE-C3BW **POLE MOUNT**

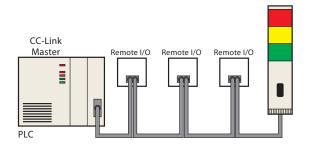
LE-C3P LE-C3BP

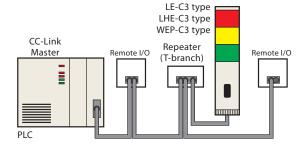
- PATLITE's exclusive Prism-Cut Lens designed for enhanced visibility from any direction and distance.
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Direct or pole mount installation.
- · Main body is constructed of ABS resin with superior resistance to impact and heat.
- Lens is made of superior impact resistant and light translucent AS resin.

WEP-C3 WFP-C3B

- Clear vertical-cut lens for enhanced illumination over a wide perspective.
- Installation can be vertical and horizontal (Alarm type must have buzzer installed face-down).
- Lens made of superior impact and heat resistant polycarbonate resin for superior durability and enhanced illumination.

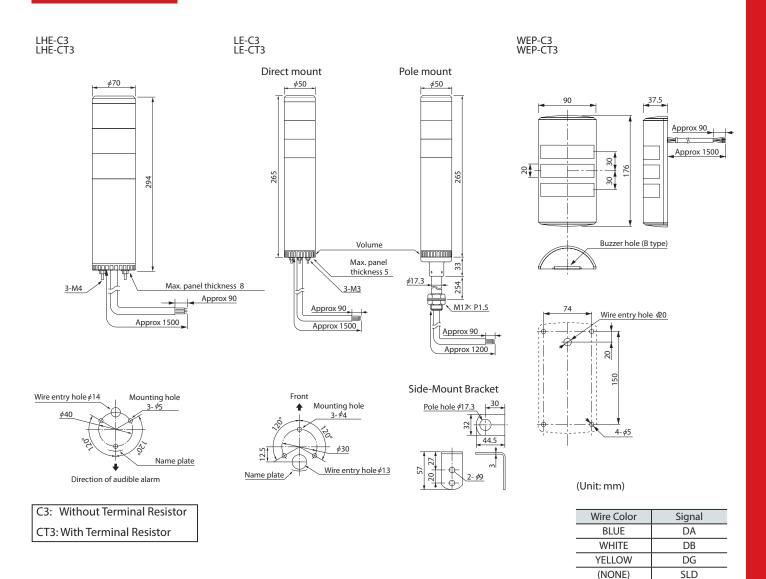
Application Example





CC-Link Signal Towers without Terminal Resistors can be branched via terminal blocks when Repeaters are not used.

Dimensions



| | Stack | | Audible | 6. 11. | Current Consumption | | | | | | | | | | |
|--------|---------|-----------------------|-----------------|----------------|---------------------|---------------------|-----------------|---------------|-------------------|--------------|-----|--|--|-------------------|--------------------|
| Series | Number | Model | Alarm Option | Signal Line | CC-Link PCB (Max) | LED Unit (| Max) | Audible Alarm | | | | | | | |
| LHE | | LHE-C(T)3 | N/A | | | 50mA (Red, Amber) | 40mA (Green) | N/A | | | | | | | |
| LUE | | LHE-C(T)3B | Available | DA, B, DG, SDL | | Joina (Red, Amber) | 40mA (Green) | 40mA | | | | | | | |
| LE | 3 Tiers | LE-C(T)3W/LE-C(T)3P | N/A | | | | | 50mA | 50mA (Red, Amber) | 40mA (Green) | N/A | | | | |
| " | 3 Hers | LE-C(T)3BW/LE-C(T)3BP | Available | | JUITA | John (Red, Alliber) | 40IIIA (Gleeli) | 40mA | | | | | | | |
| WEP | | WEP-C(T)3 | N/A | | | | | | | | | | | 30mA (Red, Amber) | 25 mg A (C mg a m) |
| WEP | | WEP-C(T)3B | Available | | | Suma (Red, Amber) | 25mA (Green) | 40mA | | | | | | | |

PHE-3FBE1

RS-232C / PC Controlled Signal Tower



LED



2 Alarm Sounds

85_{dB at 1m}

Φ40

Network



commands to output through an RS-232C port.

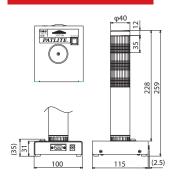
Signal Tower can be controlled directly by PC through RS-232C.

FEATURES

- Alarm is adjustable up to 85dB at 1m
- High-volume alarms (two patterns) can be heard even in a noisy factory. Bright LED signal tower
- PATLITE's original double reflection system with its exclusive hybrid prism-cut lens and 3 color LED modules create distinctive illumination that is bright and even.

 Light and alarm functions can be turned off by pressing the reset switch on the base.

Dimensions

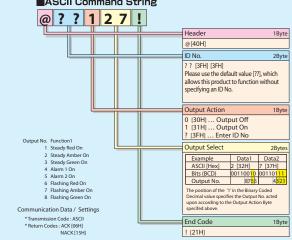


(Unit: mm)

Specifications

| Model DUE SERE1 | | | | |
|----------------------------|--------------------------------|---|--|--|
| ı | Model | PHE-3FBE1 | | |
| | Interface | RS-232C (Based on EIA) | | |
| | Method | Half-duplex, Full-duplex, Asynchronous | | |
| | Baud Rate | 9,600 bps | | |
| Communication | Data Bit | 8 bit | | |
| Protocol | Stop Bit | 1 bit | | |
| | Parity Bit | None | | |
| | Flow Control | None | | |
| | I/O Port | D-sub 9 pin Male Connector | | |
| Signal Tower | Flashing Rate | 60 flashes per minute | | |
| Specifications | Sound Level | Adjustable from 70dB to 85dB (at 1m) | | |
| | Tone Pattern | 2 Alarms (Slow Intermittent, Fast Intermittent) | | |
| | Dimensions (mm) | 100(W) x 259(H) x 115(D) | | |
| | Power Supply Source | AC Adaptor (Sold Separately) | | |
| PHE Base Specifications | Power Consumption | 6.5W | | |
| | Operating Temperature Range | 0°C to +40°C | | |
| | Humidity | 20 to 80% RH (No Condensation) | | |





• The above example shows how to turn on the following output numbers: 6, 3, 2, 1

PHC-100A

Interface Converter



Network

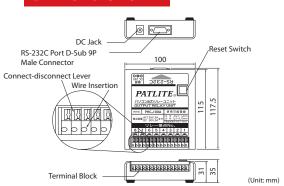


 This product requres the knowledge to program with ASCII commands to output through an RS-232C port.

The PHC-100A Interface Converter can be connected to the RS-232C port on your programmed PC to control most PATLITE products, both visual and audible.

- 16 terminals provide 8 isolated non-voltage contact outputs.
- Reset pushbutton provided to reset all outputs to the off state.

Dimensions



Basic Connections PHC Power Input I

| Model | | PHC-100A |
|----------------|----------------------|--|
| | Interface | RS-232C (Based on EIA) |
| ' | Method | Half-duplex, Full-duplex, Asynchronous |
| ' | Baud Rate | 9,600 bps |
| Communication | Data Bit | 8 bit |
| Protocol | Stop Bit | 1 bit |
| ' | Parity Bit | None |
| ' | Flow Control | None |
| | I/O Port | D-sub 9 pin Male Connector |
| | Contact Type | Non-voltage Contact |
| ' | Contact Outputs | 8 |
| PHC Base | Output Load | AC 125V 3A / DC 30V 3A |
| Terminal Buss | Capacity | |
| Specifications | Connector | Screwless Terminal |
| | Applicable Wire Size | Solid Wire: AWG18 - 26 (0.4 - 1.2mm ²) Stranded Wire: AWG20 - 22 (0.3 - 0.75mm ²) |
| | Dimensions (mm) | 100(W) x 31(H) x 115(D) |
| | Power Supply Source | AC Adaptor (Sold Separately) |
| PHE Base | Power Consumption | 4.0W |
| Specifications | Operating | 0°C to +40°C |
| | Temperature Range | |
| | Humidity | 20 to 80% RH (No Condensation) |





LED



Φ25

IP20



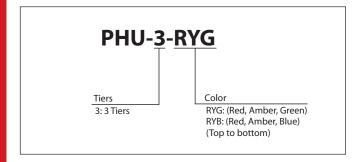


Signal Tower can be controlled directly by PC through the USB Port.

FEATURES

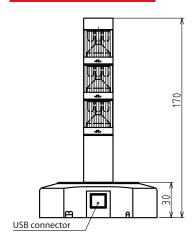
- Bright LED available as RYG or RYB three-tiered Signal Tower.
- PATLITE's original double reflection system with its exclusive hybrid prism-cut lens and 3 color LED modules create distinctive illumination that is bright and even.
- Power source supplied by USB Buss Power.

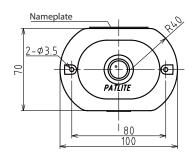
How to Order



| | Model | PHU-3-RYG | PHU-3-RYB | |
|-----------------|---|--|---------------------------------|--|
| | Rated Voltage | 5V DC (USB | Buss Power) | |
| | Operating Voltage Range | DC 4.4V to | DC 5.25V | |
| General | Rated Current Consumption (Power Source) | Standby Mode: 25mA Operating Mode: 230mA Max. | | |
| | Operating Temperature Range | -10°C to | o +55°C | |
| | Relative Ambient Temperature | RH 90% or less (No Condensation) | | |
| | Electric Noise Intensity Level | VCCI Class-B Equivalent | | |
| | Installation | Upright Position Only | | |
| | Protection Rating | IP20 | | |
| Signal Tower | Insulation Resistance | More than $1M\Omega$ at DC500V between the terminals and Chassis | | |
| 10 | Withstand Voltage | AC 500V applied for 1 minute between the terminals and chassis without breaking insulation | | |
| | Mass | 0.18kg | | |
| Interface | Input / Output | Input: USB / Output: LIghting (Red, Amber, Green, Blue LED) | | |
| Interface | Physical Specifications | Connector Input: Series-B Rece | ptacle (USB Rev. 1.1 Compliant) | |

Dimensions





(Unit: mm)

| Logic Specifications | Action | Bit Data | | | |
|------------------------------------|--|-----------|--|--|--|
| | "Red" Light On | 0000 0001 | | | |
| | "Amber" Light On | 0000 0010 | | | |
| | "Green" Light On | 0000 0100 | | | |
| | "Blue" Light On | 0000 1000 | | | |
| | "Red", "Amber" Light On; "Green", "Blue" Light Off | 0000 0011 | | | |
| | "Red", "Green" Light On; "Amber", "Blue" Light Off | 0000 0101 | | | |
| | "Amber", "Green" Light On; "Red", "Blue" Light Off | 0000 0110 | | | |
| | "Amber", "Blue" Light On; "Red", "Green" Light Off | 0000 1010 | | | |
| | "Red", "Amber", "Green", "Blue" Light On | 0000 1111 | | | |
| | "Red", "Amber", "Green", "Blue" Light Off | 0000 0000 | | | |
| | | | | | |
| Fransfer Mode | Bulk Transfer | | | | |
| | | | | | |
| Data Error Detection Criteria | CRC (Cyclic Redundancy Check) | | | | |
| | | | | | |
| Packet Commands | Token Packet (SOF, SETUP, OUT, IN) | | | | |
| | Data Packet | | | | |
| | Handshake Packet | | | | |
| Transmission Setting (Virtual COM) | HEX 0 5 | | | | |
| Bit Rate : 19,200bps | Binary 0 0 0 0 0 1 | 0 1 | | | |
| Data Length : 8 bits | I I II II | | | | |
| Parity : None | Not Used | | | | |
| Stop Bit : 1 bit | . Hot osea | | | | |
| Control Flow : None | | | | | |
| | Blue LED 0: Off /1: On ———— | | | | |
| | Green LED 0: Off /1: On ————— | | | | |
| | Amber LED 0: Off /1: On | | | | |
| | Red LED 0: Off /1: On | | | | |
| | | | | | |
| | *2 *3 | | | | |

- *1 Drivers for Windows OS may have to be installed prior to use. Refer to the Instruction Manual on how to get the latest downloads.
- *2 This product does not include a Flashing function but it can be controlled by programming it through the USB output.
- *3 The control commands for the Green LED and Blue LED for the PHU-3-RYG and PHU-3-RYB are controlled seperately.
- This Unit is designed to be controlled by one computer, improper operation may occur with two or more units connected.

VE25/VE100 Real-time Production Monitoring Solution **RoHS** PATLITE PLAN BBB

Real-time Production Monitoring Solution







VE25-304SU 3 Row, 4 Digit Type Digit Size: 25mm



VE100-304SU 3 Row, 4 Digit Type Digit Size: 100mm

Infrared Remote Control Unit (Sold Separately)

* Compliant with FCC Title 47 Part 15 Subpart B

- Improve Manufacturing Productivity
- Reduce Down Time for "Kaizen"
- Ideal for Lean Manufacturing
- **Real-time Production Monitoring**
- Large Digital Displays
- **Easy Installation**

Our VE Series Real-time Production Monitoring Solution serves as a rugged, factory floor Andon system, with real-time production status indication to alert product performance to workers and supervisors. The VE Series Real-time Production Monitoring Solution is easy to install directly on operator workstations or automated machinery, and the wireless remote control unit enables easy setup. The VE Series Realtime Production Monitoring Solution comes in 2 models (25mm or 100mm character height), and it fully supports the principles of "Kaizen" (continuous improvement) to achieve a "Visual Factory", where clear and easy to understand information is quickly accessible.

FEATURES

- · Available in 25mm and 100mm digit sizes.
- Production-control settings can easily be set-up with the remote control or PC (Sold Seperately).
- · Bright LED digits for easy viewing.
- External terminal output for adding an extra 3 color LED Signal Tower to add distinctive signaling.

Easy Setup





Progress Loss Red Light

Progress Gain

Amber Light Flash Goal

Green Light Flash

Three-terminal Output

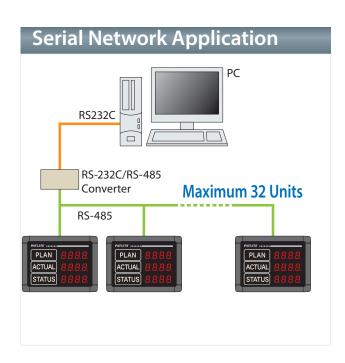


Optional Bracket for VE-100 Available

(Set of 2, Sold Separately)









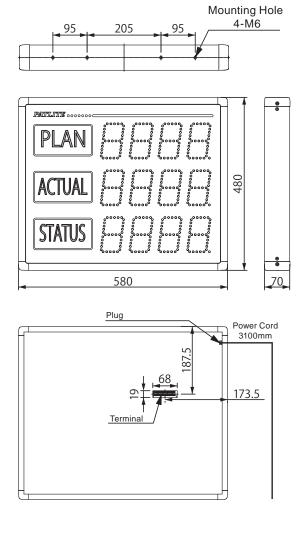




Dimensions

Model VE25-304SU

Model VE100-304SU



(Unit: mm)

| MEMO | | | |
|------|------|------|--|
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For more details, visit our website at http://www.patlite.com

Explosion-Safe Products



EDLM / EDWM

Explosion-Safe Signal Tower









Testing Authority NEC Article 505



IP66

Explosion-Safe

NPN/PNP

Open-collector









Mounting can be done in the Upright, Wall-mount, and Horizontal position

EDWM

- Voltages available in AC/DC24V, AC120V, AC230V, and free voltage of AC90 -250V Easy wire connection terminals to the Signal Tower by opening the bottom
- Different lens colors available for customized designs
- Available in 3 Tier or 5 Tier Stacks
- Ingress protection of IP66



EDLM



Innovative maintenance-free Explosion-safe LED Signal Towers with pressure and flame-proof housing, ideal for potentially flammable and hazardously explosive environments.

| ■ CENELEC (ATEX Directive | e) | | | | | |
|----------------------------------|--|------------------------|---------------------------|---|--------------------------------|--|
| Туре | EDLM-302FE | EDLM-312FE | EDLM-323FE | EDWM-502FE | EDWM-5M2FE | |
| Rated Voltage | AC/DC24V | AC 120V | AC 230V | AC/DC 24V | AC 90V - 250V | |
| Signal Line Current (Per LED) | Red/Amk | per: 52.5mA Gree | n: 20.0mA | Red: 22.6mA Amber: 26.6mA Gr | een: 17.5mA Blue/White: 38.9mA | |
| Explosion Protection Ratings | | € II2G Ex c | I IIC T6 (Zone 1,2) | € II2D EX tD A21 IP66 T80°C (Zc | one 21, 22) | |
| Operating Temperature Range | | -20°C - +50°C (no ice) | | | | |
| Operating Humidity Range | | | 45% - 85% RF | I (No dew or condensation) | | |
| Ambient Pressure Range | | | | 80 - 110kpa | | |
| Lighting Pattern | | Flash | ning (60 ±12 flashe | es per minute) / Continuous Lighti | ng | |
| Protection rating | | | | IP66 | | |
| Vibration Reistance | | | | 9.8m/s ² | | |
| Mounting | Out | door & Indoor: Up | right | Outdoor & Indoor: U | pright and Sideways | |
| Luminosity | Red: 350mcd | Amber: 580mcd(| Green: 1300mcd | Red/ Amber/ Green: 1000 | mcd Blue/White: 300mcd | |
| Mass (Main Body) | | 4.3kg | | 4.7 | 7kg | |
| Material | Upper/Lower Housing: Aluminum Alloy (Melamine Baked Finish) Glass Case: Borosilicate Glass Fitting Bracket: Stainless Steel (SUS316) Cable Gland: Brass | | | | | |
| ■ CENELEC (ATEX Directive | - | | | | | |
| Туре | EDLM-302FA | EDLM-312FA | EDLM-323FA | EDWM-502FA | EDWM-5M2FA | |
| Rated Voltage | AC/DC24V | AC 120V | AC 230V | AC/DC 24V | AC 90V - 250V | |
| Signal Line Current (Per LED) | Red/Amk | per: 52.5mA Gree | | | een: 17.5mA Blue/White: 38.9mA | |
| Explosion Protection Ratings | | € II2G Ex c | | (Ex) II2D EX tD A21 IP66 T80°C (Zc | one 21, 22) | |
| Operating Temperature Range | | | | C - +50°C (no ice) | | |
| Operating Humidity Range | | | 45% - 85% RF | I (No dew or condensation) | | |
| Ambient Pressure Range | | | | 80 - 110kpa | | |
| Lighting Pattern | | Flash | ning (60 ±12 flashe | es per minute) / Continuous Lighti | ng | |
| Protection rating | | | | IP66 | | |
| Vibration Reistance | | | | 9.8m/s ² | | |
| Mounting | | door & Indoor: Up | | | pright and Sideways | |
| Luminosity | Red: 350mcd Amber: 580mcd Green: 1300mcd Red/ Amber/ Green: 1000mcd Blue/White: 300mcd | | | | | |
| Mass (Main Body) | | 4.3kg | | | 'kg | |
| Material | | Upper/l | Glass Ca Fitting Brack | uminum Alloy (Melamine Baked F ase: Borosilicate Glass et: Stainless Steel (SUS316) ble Gland: Brass | inish) | |

EDLM & EDWM are covered by the specifications shown in the **shaded** areas below:

Common Standards for Europe

• The ATEX directive is a CENELEC Standard

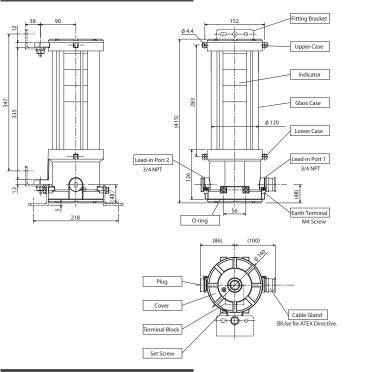
| Classification | Standard | PATLITE Models | Constant Exposure | Occasional Exposure | Rare & Temporary |
|-----------------------------------|----------|----------------|-------------------|---------------------|------------------|
| ATEX, IEC/EU Directive 94/9/EC | | EDLM, EDWM | Zone 0 | Zone 1 | Zone 2 |

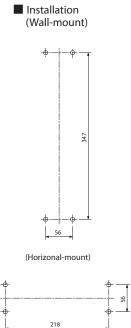
Common Standards for the USA

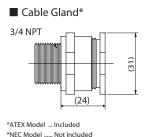
| | NEC is a National Electrical Code Standard for North America | | | | |
|---|--|---------------------|------------------|--|--|
| s | Constant Exposure | Occasional Exposure | Rare & Temporary | | |
| | Zone 0 | Zone 1 | Zone 2 | | |

Classification Standard **PATLITE Models** NEC Article 505 ANSI/NFPA 71 EDLM, EDWM NEC Article 500 | ANSI/NFPA 70 Division 1 Division 2

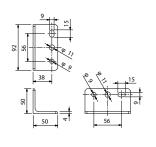
Dimensions







■ Flush-mount Bracket

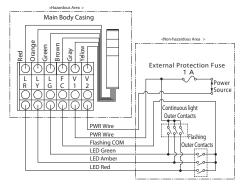


(Unit: mm)

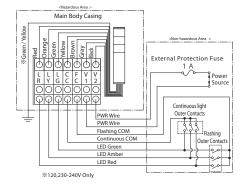
Wiring

EDLM (3 Color LED)

· EDLM-302FE/EDLM-302FA

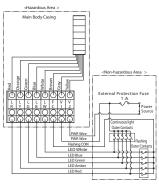


• EDLM-312FE/EDLM-312FA EDLM-323FE/EDLM-323FA

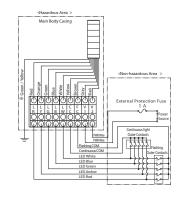


EDWM (5 Color LED)

EDWM-502FE/ EDWM-502FA



• EDWM-5M2FE/ EDWM-5M2FA



AR-070

CE II 3GD Ex nA IIC T4 Gc, Ex tc IIIC T85°C Dc IP65 94/9/EC (ATEX) CENELEC: EN 60079-0, EN 60079-15, EN 60079-31

Explosion-Safe Signal Tower









1/2" NPT *1/2 NPT Adaptor also available





85_{db at 1m}

P65 (IP54 with Buzzer)

Explosion-Safe

Φ40

FEATURES

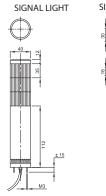
- Explosion-Safe for gas and dust
- Suitable for Zone 2 and Zone 22
- CE Compliance in accordance to ATEX
- Full and brilliant lumination
- LED double reflection lighting system
- · Different lens colors available
- Stackable from 1 to 5 tiers
- Wall mount or direct mount
- Ingress protection of IP65 (IP54 with buzzer)
- Available with "flashing/ non-flashing" and two audible alarm sounds



Side-mount Bracket

Explosion-Safe Signal Tower φ40mm with sealed cable

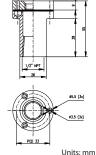
Dimensions







1/2" NPT ADAPTER TYPE

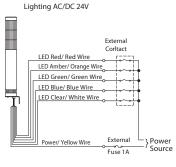


Specifications

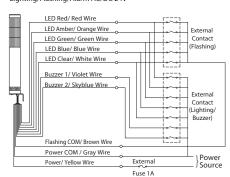
| Explosion-safety | CE Ex II3 GD; Ex nA IIC T4 Gc: Ex tc IIIC T85°C Dc IP65 |
|-------------------------|---|
| CE Conformities | EN 60079-0, EN 60079-15, EN 60079-31 |
| Certification | EC Declaration of Conformity |
| Ambient Temperature | -30°C - +60°C |
| Ingress Protection | IP65 to EN 60529 |
| Material | ABS Tower Body |
| Lighting Source | Multiple LED's with Double Reflection System |
| Acoustical Source | Buzzer with two different tones: 85dB (at 1m) |
| Rated Voltage | AC/DC 24V |
| Assembly Position | As Desired |
| Activation Time | 100% |
| Module Colors Available | Red, Amber, Green, Blue, Clear/White |
| Cable | Factory sealed cable, φ8mm, length 3 meters |

| CURRENT RATINGS | | | | | |
|-----------------|--------------------|-------------------------------|----------------|--|--|
| | LED | BUZZ | ER | | |
| Signal | Line Current | Signal Line Current | Inruch Current | | |
| Red, Amber | Green, Blue, Clear | Signal Line Current Inrush Cu | | | |
| ab. 30mA | ab. 25mA | ab. 40mA | ab. 250mA | | |

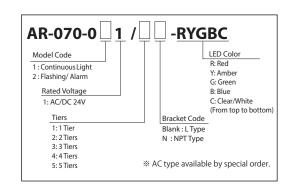
Wiring



Lighting/Flashing/Alarm AC/DC 24V



How to Order





AR-078

CE 60 II 3GD Ex nA IIC T4 Gc, Ex tc IIIC T85°C Dc IP65 94/9/EC (ATEX) CENELEC: EN 60079-0, EN 60079-15, EN 60079-31

Explosion-safe Signal Tower



*3/4 NPT Adaptor also available

*RoHS (Ex





FEATURES

- Explosion-Safe for gas and dust
- Suitable for Zone 2 and Zone 22
- CE Compliance in accordance to ATEX
- · Full and brilliant lumination
- LED double reflection lighting system
- Different lens colors available
- Stackable from 1 to 5 tiers
- Wall mount or direct mount
- Ingress protection of IP65 (IP54 with buzzer)
- Available with "flashing/ non-flashing" and two audible alarm sounds







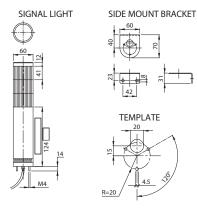
cplosion-Safe

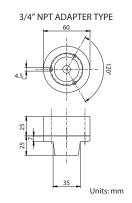
Φ60

Explosion-Safe Signal Tower φ60mm with sealed cable

Dimensions

Side-mount Bracket



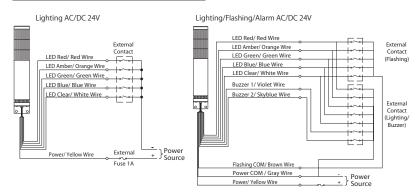


Specifications

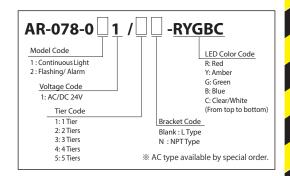
| CE Ex II3 GD; Ex nA IIC T4 Gc: Ex tc IIIC T85°C Dc IP65 |
|---|
| EN 60079-0, EN 60079-15, EN 60079-31 |
| EC Declaration of Conformity |
| -30°C - +60°C |
| IP65 to EN 60529 |
| ABS Tower Body |
| Multiple LED's with Double Reflection System |
| Buzzer with two different tones: 90dB (at 1m) |
| AC/DC 24V |
| As Desired |
| 100% |
| Red, Amber, Green, Blue, Clear/White |
| Factory sealed cable, φ8mm, lenght 3 meters |
| |

| | CURRENT RATINGS | | | | | | |
|---|---------------------|--------------------|---------------------|------------------|--|--|--|
| | | LED | BUZZE | R | | | |
| | Signal Line Current | | Signal Line Current | Invited Current | | | |
| F | Red, Amber | Green, Blue, Clear | Signal Line Current | inirusii Current | | | |
| | ab. 30mA ab. 25mA | | ab. 40mA | ab. 250mA | | | |

Wiring



How to Order



LKEH-EX

CE 🍪 II 3GD Ex nA IIC T4 Gc, Ex tc IIIB T85°C Dc IP54 94/9/EC (ATEX) CENELEC: EN 60079-0, EN 60079-15, EN 60079-31

Explosion-Safe LED Hybrid Signal Tower







32 Channels (Binary)

63 Seconds

105_{db} at 1m

Explosion-Safe

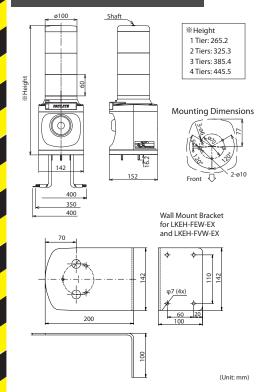
FEATURES

- Explosion-Safe for gas and dust
- Suitable for Zone 2 and Zone 22
- CE Compliance in accordance to ATEX
- LED brightness is visible from a far distance with a big 100mm diameter module
- Super-bright LED colors corresponding to different voice, alarm, chimes and melody sounds.
- Voice alert messages of up to 63 seconds (64kbit/sec) with 5 channels for playback.
- 32 different melody, chime sound combinations are pre-recorded
- 8 sounds can be played back with bit input, or 32 sounds with binary input
- Stackable from 1 to 4 tiers
- Adjustable volume from 0 to 105dB (at 1m)
- MP3 model is field-programmable, using an SD Card for model LKEH-FV-EX
- Robust design able to withstand vibrations of up to 2G.
- Body is made of Acrylonitrite-Ethylene-Styrene for weather resistance
- One common wire can easily control both LED Units and audible signals
- NPN open-collector connection is standard, PNP is available upon request

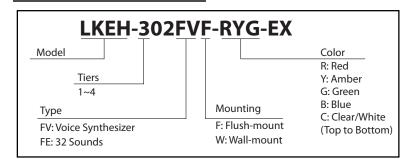


LKEH-FV-EX, LKEH-FE-EX

Dimensions



How to Order



| Model | MP3 | Power |
|-------------------------|----------|-------|
| LKEH-FEF-EX/LKEH-FEW-EX | _ | 14.2W |
| LKEH-FVF-EX/LKEH-FVW-EX | Supports | 14.2W |

SD Card (SDV-128) for models LKEH-FVF-EX and LKEH-FVW-EX is sold separately.

Sound Selection Chart

| Beep (slow intermittent) | Stutter + Bell | Inverted Reveille | Annie Laurie | |
|------------------------------|---------------------|---------------------|-------------------------------|--|
| Stutter (rapid intermittent) | Melody Chime | Galactic Motor | London Bridge is falling down | |
| Bell (clear high-pitch) | Chime Ringing Phone | | Mary had a little Lamb | |
| Yelp (rapid siren) | Call Sign | Two Tone | Camptown Races | |
| Rapid Hi-Lo | Train Ride | Alarm Clock | Amaryllis | |
| Melody Chime | Galloping Hi-Lo | Ringing Hi-Lo | Mozart Symphony No. 40 | |
| Synthesized Piano | Alien Chatter | Fur Elise | Ave Maria | |
| Synthesized Bell | Falling Crystals | Bach Minuet in Gmaj | Grandfather's Clock | |

Specifications

| Model | Rated Voltage | MP3, Melody | Operating Temperature Range | Recordable Duration | Mounting Brackets | Channels | Mass | | | | | | | | | |
|-------------|------------------|------------------------------------|-----------------------------------|------------------------|----------------------|-------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|------------|-------------------------------------|-------|
| LKEH-FEF-EX | | Type-E | | Pre-recorded | Flush-mount | 8ch bit input, 32ch binary input | 2.8kg | | | | | | | | | |
| LKEH-FEW-EX | DC 24V | Type-E | -10°C to +50°C | -10°C to +50°C | -10°C to +50°C | -10°C to +50°C | -10°C to +50°C | -10°C to +50°C | -10°C to +50°C | -10°C to +50°C | -10°C to +50°C | -10°C to +50°C | Pre-recorded | Wall-mount | 8ch bit input, 32ch binary input | 3.2kg |
| LKEH-FVF-EX | DC 24V | MPEG1-Audio Layer III, 64kbit/s | 85% RH or less | 63 seconds | Flush-mount | 5ch bit input, 32ch binary input | 2.8kg | | | | | | | | | |
| LKEH-FVW-EX | | MPEG1-Audio Layer III, 64kbit/s | | os seconas | Wall-mount | 5ch bit input, 32ch binary input | 3.2kg | | | | | | | | | |

• The mass is based on a 3-tiered LED Model LKEH. The mass will change in accordance to the number of tiers.









EHS-EX/EHV-EX

Explosion-Safe Melody/Alarm Horn









FEATURES

- · Protection Rating of IP65.
- Explosion-Safe for gas and dust
- Suitable for Zone 2 and Zone 22
- · CE Compliance in accordance to ATEX
- · EHS-EX comes with 32 preloaded melody and alarm sounds with adjustable volume up to 110dB (@ 1m).
- Robust, indoor and outdoor use with vibration resistance up to 4.5G.
- EHV-EX comes with 63 preloaded crisp and clear melody and alarm sounds with adjustable volume up to 110dB (@ 1m).
- EHV-EX offers a field-programmable MP3 function with a maximum of 220 sec. of recording time (@ 64bps) and an adjustable volume up to 105dB (@ 1m).
- Ideal for plant-wide notification, public address and process control.
- UL464, CSA-C22.2 NO.205-M1983, FCC Part 15 Subpart B Class 4.
- CE, RoHS Compliant (EHS-M1 and EHV-M1 Only).





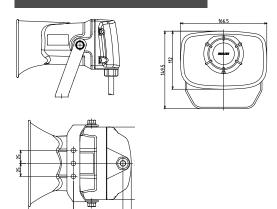
63 Channels (Binary)

 $110\,{\sf dB}$ at 1m $_{\sf (EHS)}$

IP65

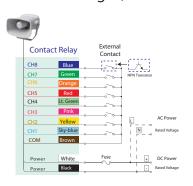
Explosion-Safe

Dimensions

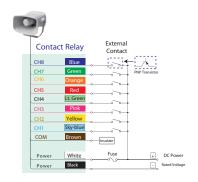


Wiring

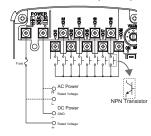
Non-voltage (NPN) Wiring



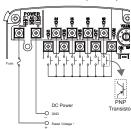
PNP Wiring



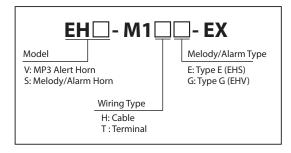
Terminal (NPN)



Terminal (PNP)



How to Order



| Model | Rated Voltage | Voltage Range | Power Consumption | Rated Current Consumption | Sound Pressure (max) | Operating Temperature Range | No. of Playback Messages | Protection Rating | Wiring Type | Mass |
|----------|---------------|--|-------------------|------------------------------|----------------------|--------------------------------------|----------------------------------|----------------------|-------------|--------|
| EHS- M1H | DC 12 - 24V | DC 10.8V to 26.4V | 4W (at DC24V) | 450mA (max) | Alarm: 110dB (at 1m) | -20°C to +50°C (Less than 85% RH) | Bit Input: 8 Binary Input: 32 | IP65 | Cable | 1.25kg |
| EHS- M1T | | | | | | (Less tridii 65% NH) | biliary input: 32 | | Terminal | |
| EHV- M1H | DC 12 - 24V | DC 10.8V to 26.4V | 4W (at DC24V) | 400mA (max) | Alarm: 110dB (at 1m) | -20°C to +50°C | Bit Input: 8 | IP65 | Cable | 1.25kg |
| EHV- M1T | DC 12 - 24V | 24V DC 10.8V to 26.4V 4W (at DC24V) 400MA (max | | 400IIIA (IIIax) | MP3: 105dB (at 1m) | (Less than 85% RH) | Binary Input: 63 | 1705 | Terminal | 1.23Kg |

Note 1: The sound pressure level is based on measurements under controlled conditions (voice-synthesized 1 kHz sine wave played back from a distance of 1 meter), therefore the surrounding environmental conditions and message content will result in different values for the sound pressure level.

CLN-EX

CE 😸 II 3GD Ex nA IIC T4 Gc, Ex tc IIIC T135°C Dc IP65 94/9/EC (ATEX) CENELEC: EN 60079-0, EN 60079-15, EN 60079-31

Explosion-Safe LED Work Light









IP66G/67G/69K

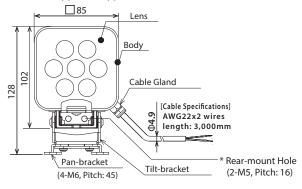
Explosion-Safe

FEATURES

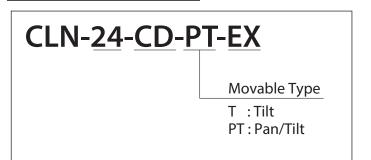
- · 820 lx brightness
- 60,000 hrs., or about 7 years of long service life (*1)
- IP66G, IP67G, IP69K protection (*2)
- · Low current draw of 174mA
- DC 24V (Polarized)
- Wide operating temperature range (-40 to +60°C)
- IEC62471 Compliance (Photobiological Safety Standard)
- Daylight Color Temperature (6,500K), suitable for very detailed work CLN-24-CD-PT-EX
- Made of aluminum alloy and tempered glass, is resistant to water, oil and coolants
- Includes a flexible stainless-steel angle bracket to adapt to various scenarios (*3) Compact, light-weight, durable design (Thickness:22.2mm x Width: 85mm x Height: 128mm)
- *1: The typical value of LED brightness is 70% of the original specification, but may vary depending on actual applications.
- IP66G and IP67G are Japanese Industrial Standards (JIS C0920-2003), and IP69K is the German DIN 40050 PART9 Standard.

Dimensions

• Pan/Tilt Type (PT Type)



How to Order



| Model | CLN-24-CD-PT-EX |
|---|--|
| Color Code (Color) | CD (Daylight) |
| Color Temperature (typ.) | 6500K |
| Illumination (typ.) (Centered at DC 24V) 1m | 820 lx |
| Total Luminous Flux (typ.) | 550 lm |
| Rated Voltage | DC 24V (Polarized) |
| Operating Voltage Range | DC 24V ±10% |
| Rated Consumption Current/Power Dissipation | 174mA ±10% / 4.2W |
| Operating Ambient Temperature | -40°C to +60°C (90% RH, no condensation) |
| Main Unit Material | Body: Aluminum Alloy Lens: Tempered Glass |
| Protection Rating | IP66G/67G (JIS C 0920)/69K (DIN 40050 part 9) (excluding cable ends) |
| Mounting Location/Direction | Indoor / Any Direction |
| Insulation Resistance | DC 500V 5M Ω or more between power input and metallic part |
| Withstand Voltage | 500VAC for 1 minute between power input and chassis |
| Vibration Resistance | 30Hz total amplitude 0.3mm ^{p-p} (Back and forth, up and down, left and right for 2 hrs each) total amplitude 0.3mm ^{p-p} (10-57Hz), Acceleration 19.6m/s² |
| Mass (Tolerance ±10%) | 430g |

CLK-EX

CE II 3GD Ex nA IIC T4 Gc, Ex tc IIIC T135°C Dc IP65 94/9/EC (ATEX) CENELEC: EN 60079-0, EN 60079-15, EN 60079-31

Explosion-Safe LED Work Light

CLK6C-24AG-CD-EX

CLK3S-24AG-CD-EX









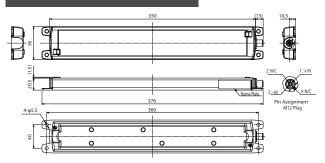
- · Aluminum Housing
- Tempered glass lens
- IP66G/67G/69K ratings
- Explosion-safe for gas and dust
- Suitable for Zone 2 and Zone 22
- Temperature Range of -40°C to +60°C
- CE Compliance in accordance to ATEX
- 1,200 lx (3S/3C) and 2,100 lx (6S) brightness
- · Outdoor installation allows Upright installation only
- LED Color Temperatures of 6,500K (CD) and 5,000K (CN)
- Stainless Steel Housing (available for 350mm long models)
- 250mm length (2S, 350mm length (3S/3C), 650mm length (6S) available



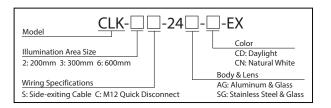
IP66G/67G/69K



Dimensions



How to Order



12 Sliding Width

| Model | CLK- [_] [_] -24- [_] [_] - [EX |
|---|--|
| Color Code (Color) | Natural White (CN) / Daylight (CD) |
| Rated Voltage | DC 24V |
| Operating Voltage Range | DC 24V ±10% |
| Rated Consumption Current | 522mA ±40mA (3S / 3C Type) |
| Light Source | High intensity LED x 18 elements (3S / 3C Type) |
| Luminous Intensity at Optical Center (lx at 1m) | 1200 (3S / 3C Type) |
| Main Unit Material | Body: Aluminum Alloy or Stainless Steel Lens: Tempered Glass |
| Operating Temperature Range | -40°C to +60°C (90% RH, no condensation) |
| Mounting Location/Direction | Indoor / Any Direction |
| Protection Rating | IP66G/67G (JIS C 0920)/69K (DIN 40050 part 9) (excluding cable ends) |
| Vibration Resistance | 19.6m/s ² |
| Mass (Tolerance ±10%) | 1.49kg |

^{*1:} The LED Work Light can only be installed in places where risk of mechanical danger is limited to an impact energy of 2 Joules. (1kg mass dropped at a 20cm height)

CLA-EX

CE 🚳 II 3GD Ex nA IIC T4 Gc, Ex tc IIIC T135°C Dc IP65 94/9/EC (ATEX) CENELEC: EN 60079-0, EN 60079-15, EN 60079-31

Explosion-Safe LED Work Light



Daylight Natural White



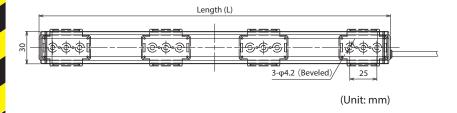
IP66/67/69K

Explosion-Safe

FEATURES

- Explosion-safe for gas and dust
- Suitable for Zone 2 and Zone 22
- CE Compliance in accordance to ATEX
- DC 24V (Polarized, ±10%)
- Cable length: 3 meters
- IP66/67/69K ratings
- Body made of Polycarbonate Resin
- Polycarbonate mounting brackets available
- Lenghts available are; 100mm (140 lx), 200mm (270 lx), 300mm (400 lx), 600mm (650 lx), 900mm (810 lx), 1,200mm (890 lx), 1,500mm (945 lx)
- Temperature Range of -40°C to +60°C (RH 90% or less, no condensation)

Dimensions



How to Order



| Model | Luminous Color | Length | Rated Voltage | Rated Current Consumption | Center Radiation (lx/50cm) | Mounting Direction | Vibration Resistance | Mass | | |
|------------------|-------------------|------------|------------------|------------------------------|----------------------------------|-----------------------|-------------------------|------|--|------|
| CLA1S -24-CD-EX | Daylight | 100mm | | 104mA | 140 lx | | | 900 | | |
| CLA1S -24-CN-EX | Natural White | 100111111 | | 104ma | 140 IX | | | 80g | | |
| CLA2S -24-CD-EX | Daylight | 200mm | | 208mA | 270 lx | | | 130g | | |
| CLA2S -24-CN-EX | Natural White | 200111111 | | ZUOIIIA | 270 IX | | | 1309 | | |
| CLA3S -24-CD-EX | Daylight | 300mm | Ī | 240mA | 400 lx | Ī | | 100- | | |
| CLA3S -24-CN-EX | Natural White | 300mm | | 240MA | 400 IX | | , | 180g | | |
| CLA6S -24-CD-EX | Daylight | C00 | DC 24V | 480mA | 650 lx | Any Direction | 19.6m/s ² | 240= | | |
| CLA6S -24-CN-EX | Natural White | 600mm | (Polarized) | 480MA | 050 IX | (Indoors Only) | 19.011/5 | 340g | | |
| CLA9S -24-CD-EX | Daylight | 000 | 000 | 000 | | 720mA | 810 lx | | | 500g |
| CLA9S -24-CN-EX | Natural White | 900mm | | 720IIIA | 010 IX | | | 3009 | | |
| CLA12S -24-CD-EX | Daylight | 1200mm | | 960mA | 900 lv | | | 6600 | | |
| CLA12S -24-CN-EX | Natural White | 1200111111 | | | 890 lx | | | 660g | | |
| CLA15S -24-CD-EX | Daylight | 1500 |] | 1 200m A | 045 14 | [| | 020- | | |
| CLA15S -24-CN-EX | Natural White | 1500mm | | 1,200mA | 945 lx | | | 820g | | |



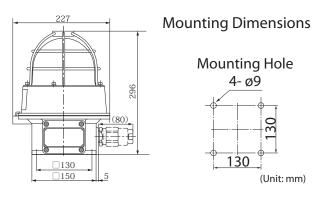
Robust Heavy Duty Revolving Warning Light.

FEATURES

- φ224mm Diameter.
- Rotating parabolic reflector to enhance visibility from a distance.
- · Upright, inverted, and sideways installation allowed for indoors; and upright for outdoors only.
- Main body is made of Aluminum Alloy Die-cast with silver-colored baked enamel finish.
- Dome is made from superior weather-resistant and light-translucent acrylic resin.
- Available Colors are Red, Amber, Green, and Blue.

*Cable Glands are optional parts and need to be ordered separately.

Dimensions



Specifications

| Mod | dal | Rated Voltage | Current | Flash Rate | Bu | ılb | Mass | | |
|-------|-------|----------------|-----------------|------------|---------|-----|---------|-----------|--------|
| MIO | uei | Rated voltage | Itage Current C | | (fpm) | | Ratings | Repl. No. | IVIdSS |
| ○ RES | -12A | DC 12V | 0.9A | 170 | 12V 10W | 9 | | | |
| ○ RES | -24A | DC 24V | 0.5A | 170 | 24V 10W | 10 | | | |
| ◎ RES | -48A | DC 48V | 0.3A | 150 | 48V 10W | 11 | | | |
| RES | -100A | AC 100V - 110V | 0.1A | | | | 6.5kg | | |
| ◎ RES | -120A | AC 115V - 120V | 0.14 | 170 | 12V 5W | 12 | | | |
| RES | -220A | AC 200 - 220V | 0.05A | 170 | 120 300 | 12 | | | |
| ◎ RES | -240A | AC 230 - 240V | 0.05A | | | | | | |
| | | 646 844 56 | | · | | @ c | | | |

Bulb: G18 BA15S Special Order

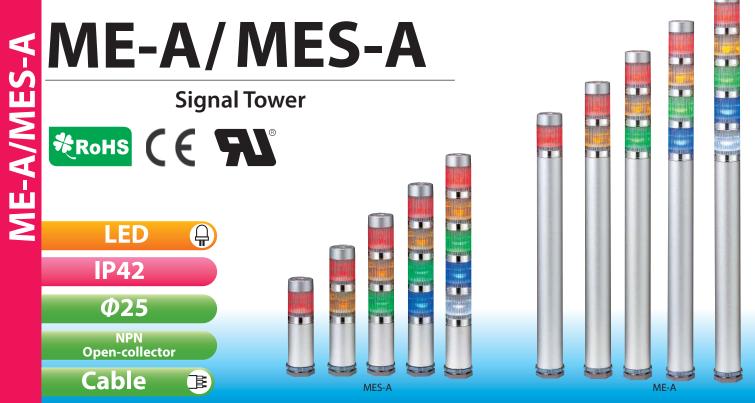


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For more details, visit our website at http://www.patlite.com

Signal Tower





Super-slim 25mm Signal Tower with aluminum body, ideal for small devices.

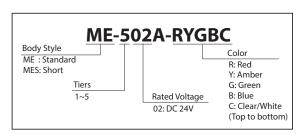
FEATURES

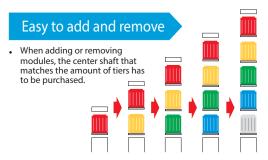
- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- · Lens is made of superior impact and heat resistant polycarbonate resin for superior durability and light transmission.
- Available Colors are in Red, Amber, Green, Blue, and Clear/White.
- Specially enhanced high intensity illumination design.
- · Direct mount installation with just a single hole.
- Interchangeable Modules need no re-wiring, even after installation.
- · Main body is constructed of corrosion resistant anodized aluminum to retain its external beauty.
- Body Length for MES-A is 40mm, and for the ME-A is 200mm.
- · Conforms to the CE requirements.
- · UL recognized components (File No. E215660)

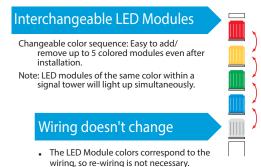
AVAILABLE BY SPECIAL ORDER

- Cable: Versatile and flexible 3m cable.
- · IP54 (for ME/MES).
- PNP Compatible: ME and MES 24V Types.

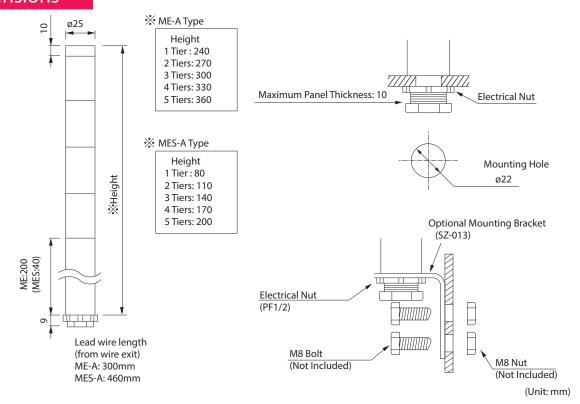
How to Order





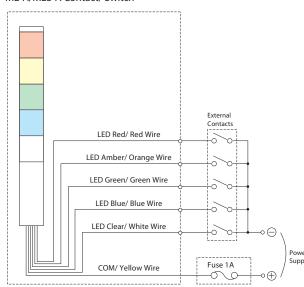


Dimensions

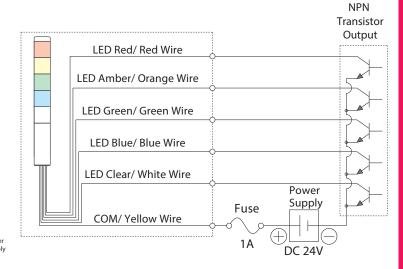


Wiring

• ME-A/MES-A Contact/ Switch



• ME-A/MES-A NPN Open Collector



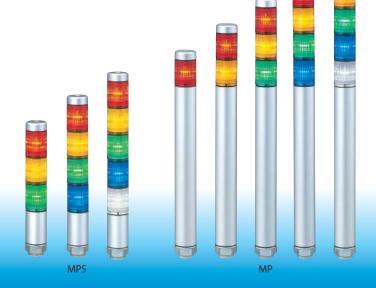
| Stack | Model | Rated | Power | Ma | ass |
|---------|-------------------|---------|-------------|--------------|------|
| Number | Model | Voltage | Consumption | ME | MES |
| | ME/MES-102A-R | | 0.6W | | |
| | ME/MES-102A-Y | | 0.6W | 220g | |
| 1 Tier | ME/MES-102A-G | | 0.5W | | 120g |
| | ME/MES-102A-B | | 0.5W | | |
| | ME/MES-102A-C | | 0.5W | | |
| | ME/MES-202A-RY | | 1.2W | | 130g |
| 2 Tiers | ME/MES-202A-RG | DC 24V | 1.1W | 230g | |
| 2 Hers | ME/MES-202A-RB | | 1.1W | | |
| | ME/MES-202A-RC | | 1.1W | | |
| | ME/MES-302A-RYG | | 1.7W | | |
| 3 Tiers | ME/MES-302A-RYB | | 1.7W | 240g 250g | 140g |
| | ME/MES-302A-RYC | | 1.7W | | |
| 4 Tiers | ME/MES-402A-RYGB | | 2.3W | | 1500 |
| 4 Hers | ME/MES-402A-RYGC | | 2.3W | | 150g |
| 5 Tiers | ME/MES-502A-RYGBC | | 2.8W | 260g | 160g |

MP/MPS Signal Tower





NPN/PNP Open-collector



Super slim 30mm silver body Signal Tower, ideal for small devices.

Patented reflection system increases visibility

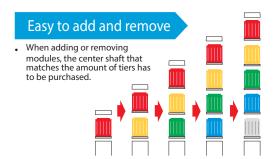


FEATURES

- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Double-insulated construction for enhanced durability and safety in the work environment.
- Direct mount installation with just a single hole.
- Interchangeable Modules need no re-wiring, even after installation.
- Main body is constructed of superior impact and heat resistant ABS resin.
- Lens is made of superior weather resistant and light translucent AS resin.
- Available Colors are in Red, Amber, Green, Blue, and Clear/White.
- Conforms to the CE requirements.
- UL Recognized Components (File No. E215660) AVAILABLE BY SPECIAL ORDER
- All Clear Lenses: Distinctive color recognition when operated with clear lenses (B0738 type).
- Cable: Versatile and flexible 3m cable.



Optional MP-B Buzzer (See pg. 199)



Interchangeable LED Modules

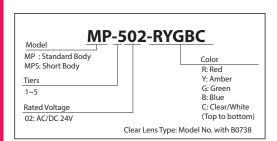
Changeable color sequence: Easy to add/ remove up to 5 colored modules even after

Note: LED modules of the same color within a signal tower will light up simultaneously.

Wiring doesn't change

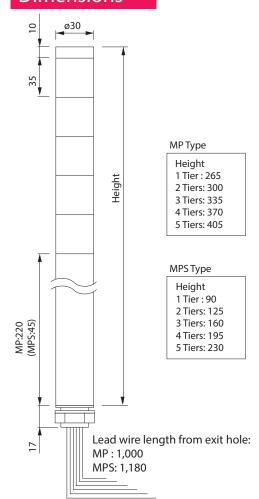
The LED Module colors correspond to the wiring, so re-wiring is not necessary.

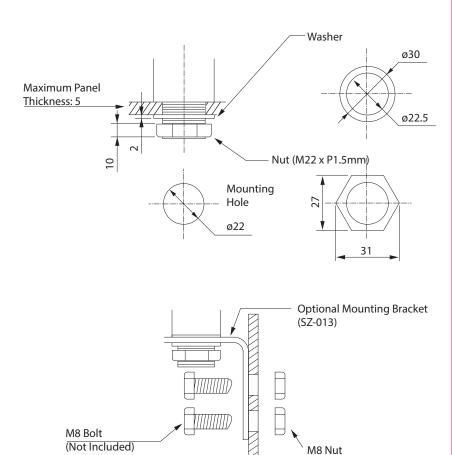
How to Order



| Stack | Model | Rated Voltage | Power | Mass | | |
|---------|------------|---------------|-------------|------|------|--|
| Number | Model | Rated Voltage | Consumption | MP | MPS | |
| 1 Tier | MP/MPS-102 | | 0.7W | 210g | 110g | |
| 2 Tiers | MP/MPS-202 | | 1.4W | 230g | 130g | |
| 3 Tiers | MP/MPS-302 | AC/DC 24V | 2.0W | 250g | 150g | |
| 4 Tiers | MP/MPS-402 | | 2.6W | 270g | 170g | |
| 5 Tiers | MP/MPS-502 | | 3.2W | 290g | 190g | |

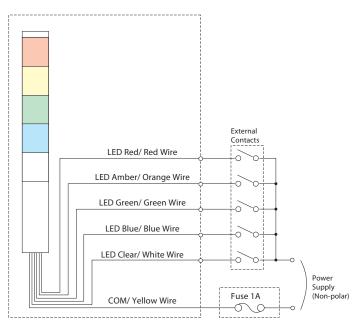
Dimensions

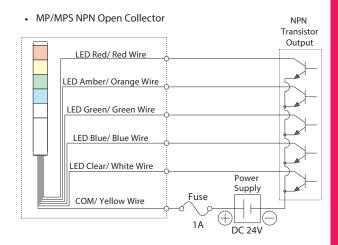




Wiring

MP/MPS Contact/ Switch

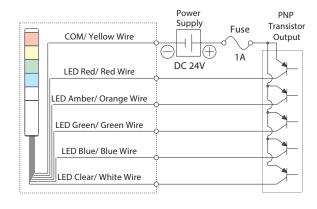




(Not Included)

(Unit: mm)

• MP/MPS PNP Open Collector





Signal Tower





Ф30

M12 Cable



NPN/PNP **Open-collector**



Super slim 30mm silver body Signal Tower with M12 disconnect.

Patented reflection system increases visibility.

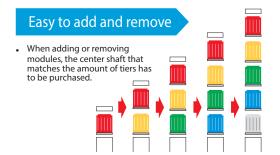


FEATURES

- Quick Disconnect M12 connector for the MP Signal Tower.
- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and
- Double-insulated construction for enhanced durability and safety in the work environment.
- Direct mount installation with just a single hole.
- Interchangeable Modules need no re-wiring, even after installation.
- Main body is constructed of superior impact and heat resistant ABS resin.
- Lens is made of superior weather resistant and light translucent AS resin.
- Available in 1, 2 or 3 tier stacks with colors in Red, Amber and Green.
- Conforms to the CE requirements.
- UL Recognized Components (File No. E215660)



Optional MP-B Buzzer (See pg. 199)



Interchangeable LED Modules

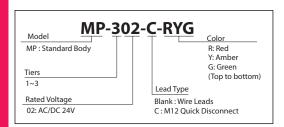
Changeable color sequence: Easy to add/ remove up to 5 colored modules even after installation.

Note: LED modules of the same color within a signal tower will light up simultaneously.

Wiring doesn't change

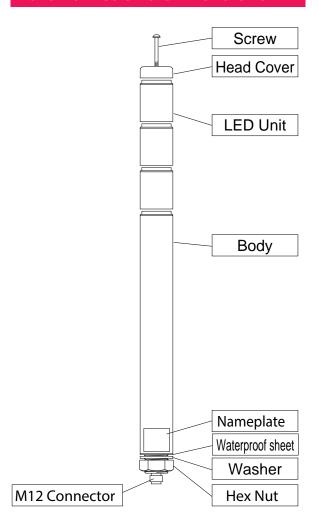
The LED Module colors correspond to the wiring, so re-wiring is not necessary.

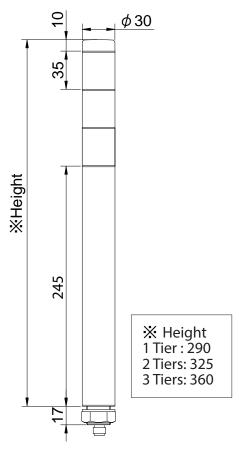
How to Order



| Stack Number | Model | Rated Voltage | Power Consumption | Mass |
|--------------|------------|---------------|-------------------|------|
| 1 Tier | MP/MPS-102 | | 0.7W | 240g |
| 2 Tiers | MP/MPS-202 | AC/DC 24V | 1.4W | 260g |
| 3 Tiers | MP/MPS-302 | | 2.0W | 280g |

Part Names and Dimensions





(Unit: mm)

Wiring

External Contact Capacity

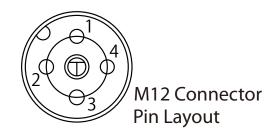
 I_s : Current Capacity V_s : Withstand Voltage

| LED Hait (1 Tian) | Current Consumption | Red: 29.0mA Amber: 29.5mA | | Green: 23.9mA |
|-------------------|---------------------|---------------------------|-------|---------------|
| LED Unit (1 Tier) | Capacity | I₅≥50mA | | V₅≥35V DC |
| Dannau Committee | Current Consumption | 200mA | | |
| Power Supply | Capacity | l _s ≥2 | 200mA | V₅≥35V DC |

M12 Connector Pin No.

| Pin No. | LED Unit Color |
|---------|----------------|
| 1 | Green |
| 2 | Red |
| 3 | Common |
| 4 | Amber |

• MP-C M12 Connector



LCE/LCE-U Signal Tower









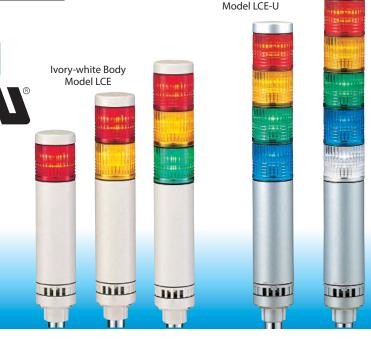
85db at 1m (FB Type)

P65 (LCE-FB Type: IP54)

Φ40

Cable

NPN/PNP Open-collector



Silver Color Body





djustable Volume Max. 85dB at 1m



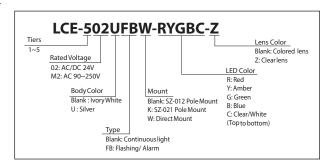
PATLITE's original dual reflection system with its exclusive hybrid prismcut lens and 5 color LED modules creates a bright, distinctive and even illumination.

The low-priced, high quality LED Signal Tower featuring low maintenance and energy savings.

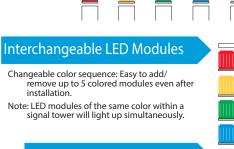
FEATURES

- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving
- Two Built-in Alarms (FB Type) with selectable sound patterns.
- Adjustable volume with a maximum of 85dB (at 1m).
- Direct or pole mount installation.
- Color-coordinated Wiring Corresponding to the lens color for guick wiring and verification.
- Interchangeable LED Modules requires no re-wiring, even after installation.
- Main body made of ABS resin with superior resistance to impact and heat. (U type has silver body and 3m cable)
- Lens is made of superior impact resistant and light translucent AS resin.
- NPN/PNP Compatible inputs for 24V DC type (M2 type compatible with NPN only).
- Available Colors are in Red, Amber, Green, Blue, and Clear/White.
- · High visibility from any angle.
- Conforms to the CE requirements (for 24V type).
- UL Recognized Components (File No. E215660).
- NEMA Type 4/4X/13 for -W, -FBW Only

How to Order



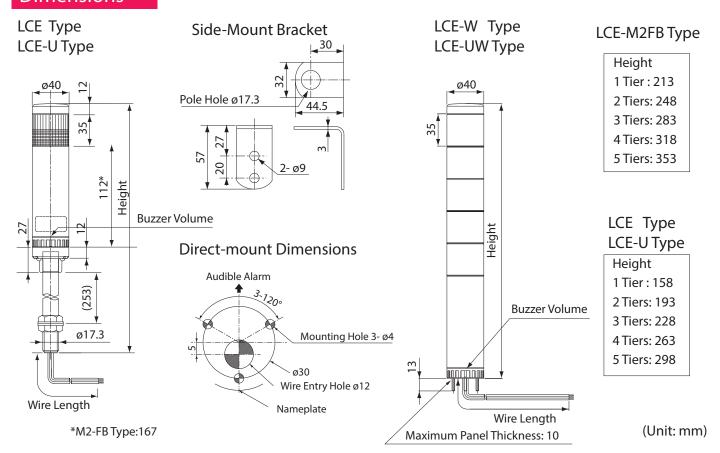
Easy to add and remove When adding or removing modules, the center shaft that matches the amount of tiers has to be purchased.



Wiring doesn't change

The LED Module colors correspond to the wiring, so re-wiring is not necessary.

Dimensions



Wire Type and Length Chart

| Model | |
|-------|--|

LCE-02

Wire Area: 0.3mm² Wire Type: UL1007 Wire Length (mm): 1,100 (W Type: 1,400)

(W Type Brown Wire: 1,350)

LCE-(FB)

Wire Length: All K Type have wire length of 1,000mm

LCE-M2

Signal Wire Area: 0.3mm² Wire Type: UL1007 Wire Length (mm): 1,050 (W Type: 1,350)

Power/Ground Wire Area: 0.75mm² Wire Type: UL1015 Wire Length (mm): 1,050 (W Type: 1,350)

LCE M2FB

Signal Wire Area: 0.3mm² Wire Type: UL1007 Wire Length (mm): 950 (W Type: 1,250)
Power/Ground Wire Area: 0.75mm² Wire Type: UL1015 Wire Length (mm): 950 (W Type: 1,250)

| Stack | | Power | | Mass | | | |
|---------|------------|---------------|-------------|------|-------|--------|---------|
| Number | Model | Rated Voltage | Consumption | LCE | LCE-W | LCE-FB | LCE-FBW |
| 1 Tier | LCE-102(U) | AC/DC 24V | 1.7W | 520g | 160g | 580g | 220g |
| i ner | LCE-1M2 | AC 90 -250V | 1.9W | 600g | 240g | 650g | 290g |
| 2 Tiers | LCE-202(U) | AC/DC 24V | 2.4W | 550g | 190g | 610g | 250g |
| 2 Hers | LCE-2M2 | AC 90 -250V | 2.6W | 630g | 270g | 680g | 320g |
| 3 Tiers | LCE-302(U) | AC/DC 24V | 3.0W | 580g | 220g | 640g | 280g |
| 3 Hers | LCE-3M2 | AC 90 -250V | 3.2W | 660g | 300g | 710g | 350g |
| 4 Tiers | LCE-402(U) | AC/DC 24V | 3.6W | 610g | 250g | 670g | 310g |
| 4 Hers | LCE-4M2 | AC 90 -250V | 3.8W | 690g | 330g | 740g | 380g |
| 5 Tiers | LCE-502(U) | AC/DC 24V | 4.2W | 640g | 280g | 700g | 340g |
| 2 Hers | LCE-5M2 | AC 90 -250V | 4.4W | 720g | 360g | 770g | 410g |

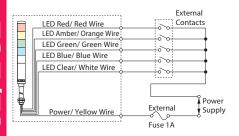




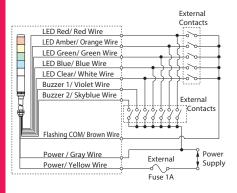


Wiring

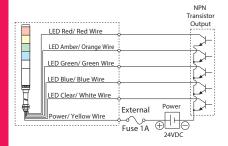
AC/DC 24V Lighting Type



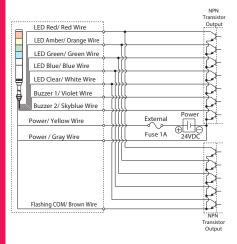
AC/DC 24V Lighting/Flashing Type



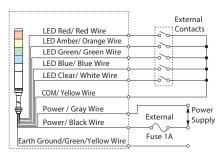
DC 24V NPN Type



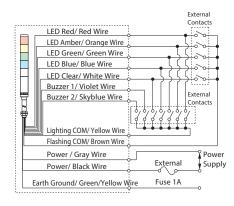
DC 24V NPN FB Type



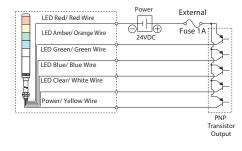
• AC 90 - 250V Lighting Type



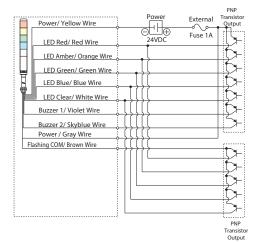
• AC 90 - 250V Lighting/Flashing Type



DC 24V PNP Type



• DC 24V PNP FB Type



Signal Line voltage and current per LED Module

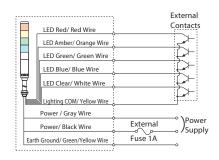
| Model Rated Vol | | | LED | | Alaı | m | |
|-----------------|---------------|--------------------------------|---------------------|---------|-------------|---------|--|
| | Rated Voltage | Voltage Signal Line Voltage | Signal Line Current | | Signal Line | Inrush | |
| | | | R, Y | G, B, C | Čurrent | Current | |
| LCE/LCE-U | AC/DC 24V | AC/DC 24V | 30mA | 25mA | 40mA | 250mA | |
| LCE-M2 | AC 90V - 250V | DC 24V | 30mA | 25mA | 40mA | 250mA | |

Lead-wire color coordination table

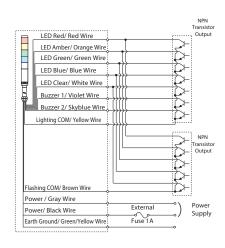
| LED Unit Color | Lead Wire Color |
|----------------|-----------------|
| Red | Red |
| Amber | Orange |
| Green | Green |
| Blue | Blue |
| Clear/White | White |

| Alarm Sounds | Lead Wire Color |
|--------------|-----------------|
| Buzzer 1 | Purple |
| Buzzer 2 | Skyblue |

AC 90 - 250V NPN Type



AC 90 - 250V NPN FB Type



LCS/LCS-U

Signal Tower









Versatile LED Signal Tower, featuring high quality with low price.

Dual Reflection

PATLITE's original dual reflection system with its exclusive hybrid prism-cut lens and 5 color LED modules creates a bright, distinctive and even illumination.



High visibility from any angle

FEATURES

- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Direct or pole mount installation.
- Color-coordinated wiring corresponding to the lens color for guick wiring and verification.
- Interchangeable LED Modules requires no re-wiring, even after installation.
- Main body made of ABS resin with superior resistance to impact and heat.
- Lens is made of superior impact resistant and light translucent AS resin.
- Available Colors are in Red, Amber, Green, Blue, and Clear/White.
- · Has the CE mark and conforms to the requirements for the EC directive.
- Is a UL Recognized Component (File No. E215660).

AVAILABLE BY SPECIAL ORDER

- · Cable: Versatile and flexible 3m cable.
- Body Color: Silver (LCS-U)
- All Clear Lenses: Distinctive color recognition when operated with clear lenses (B0738 type)
- · Available Colors: Red, Amber, Green, Blue, White

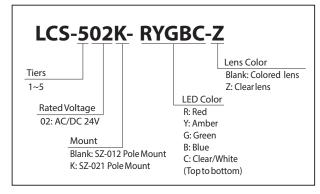
Easy to add and remove • When adding or removing modules, the center shaft that matches the amount of tiers has to be purchased. Interchangeable LED Modules Changeable color sequence: Easy to add/remove up to 5 colored modules even after installation. Note: LED modules of the same color within a signal tower will light up simultaneously.

The LED Module colors correspond to the

wiring, so re-wiring is not necessary.

Wiring doesn't change

How to Order

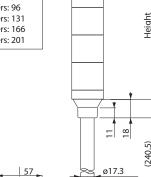


Dimensions

LCS Type LCS-K Type

| Height |
|--------------|
| 1 Tier : 61 |
| 2 Tiers: 96 |
| 3 Tiers: 131 |
| |

4 Tiers: 166 5 Tiers: 201



55

Specifications

| | Stack | Model | Rated | ated Power | | ass |
|---|---------|---------|---------------------|-------------|------|-------|
| | Number | Model | Wodel Voltage Consu | Consumption | LCS | LCS-K |
| | 1 Tier | LCS-102 | | 0.7W | 420g | 540g |
| | 2 Tiers | LCS-202 | | 1.4W | 450g | 570g |
| | 3 Tiers | LCS-302 | AC/DC 24V | 2.0W | 480g | 600g |
| | 4 Tiers | LCS-402 | | 2.6W | 510g | |
| ſ | 5 Tiers | LCS-502 | | 3.2W | 540g | |



Side-Mount Bracket

Pole Hole ø17.3



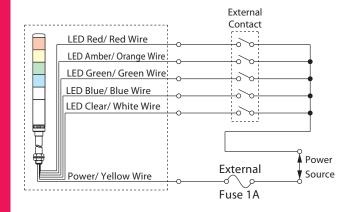
Wiring

Wire Exit: about 1,150

• DC 24V NPN Type

ø17.3

• AC/DC 24V Lighting Type



Lead-wire color coordination table

(Unit: mm)

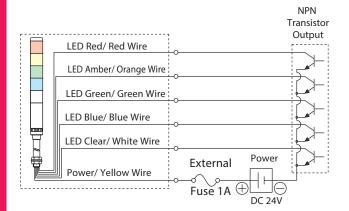
| LED Unit Color | Lead Wire Color | | |
|----------------|-----------------|--|--|
| Red | Red | | |
| Amber | Orange | | |
| Green | Green | | |
| Blue | Blue | | |
| Clear/White | White | | |

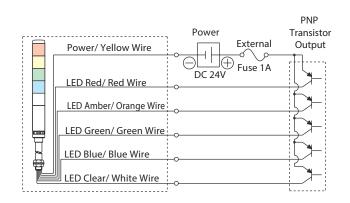
| Alarm Sounds | Lead Wire Color | | |
|--------------|-----------------|--|--|
| Buzzer 1 | Purple | | |
| Buzzer 2 | Skyblue | | |

Signal Line voltage and current per LED Module

| Model | | | LE | D | Alarm | | |
|-------|--------------|-------------|---------------------|------|-------|-------------------|-------|
| | | Signal Line | Signal Line Current | | lina | Inrush Current | |
| | Type Voltage | R, Y | G, B, C | | | | |
| | LCS | AC/DC 24V | AC/DC 24V | 30mA | 25mA | 40mA | 250mA |

• DC 24V PNP Type















Versatile, cost and energy efficient LED Signal Tower for every need.



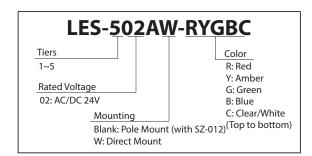


PATLITE's original dual reflection system with its exclusive hybrid prismcut lens and 5 color LED modules creates a bright, distinctive and even illumination.

FEATURES

- PATLITE's exclusive Prism-Cut Lens designed for enhanced visibility from any direction and
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Direct or pole mount installation.
- Main body is constructed of ABS resin with superior resistance to impact and heat.
- Lens is made of superior impact resistant and light translucent AS resin.
- NPN/PNP Compatible.
- Conforms to the CE requirements.
- UL Recognized Components (File No. E215660).
- Available colors* are in Red, Amber, Green, Blue, and Clear/White.
 - * Tiers cannot be increased due to the number of wires corresponding to the amount of tiers.

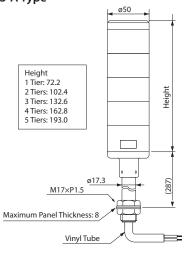
How to Order



Specifications

| Stack Number | | Model | Rated Voltage | Power Consumption | Mass |
|--------------|-----------------|-----------|---------------|----------------------|------|
| | 1 Tier LES-102A | 0.6W | 500g | | |
| | 2 Tiers | LES-202A | | 1.2W | 530g |
| Pole Type | 3 Tiers | LES-302A | | 1.7W | 560g |
| | 4 Tiers | LES-402A | AC/DC 24V | 2.2W | 590g |
| | 5 Tiers | LES-502A | | 2.7W | 600g |
| | 1 Tier | LES-102AW | | 0.6W | 70g |
| Direct | 2 Tiers | LES-202AW | | 1.2W | 100g |
| Mount | 3 Tiers | LES-302AW | | 1.7W | 130g |
| Type | 4 Tiers | LES-402AW | | 2.2W | 160g |
| | 5 Tiers | LES-502AW | | 2.7W | 190g |

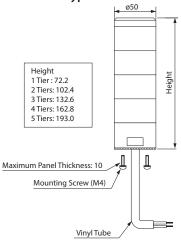
LES-A Type



Side-Mount Bracket

30

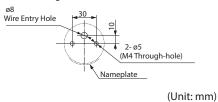
LES-AW Type



Lead-wire color coordination table

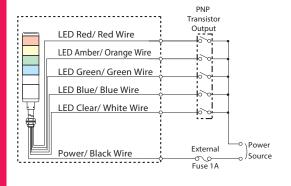
| LED Unit Color | Lead Wire Color |
|----------------|-----------------|
| Red | Red |
| Amber | Orange |
| Green | Green |
| Blue | Blue |
| Clear/White | White |

Mounting Dimension

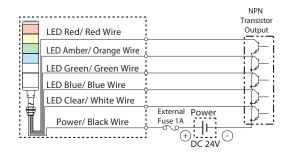


LES Model

• AC/DC 24V Lighting Type



• DC 24V NPN Type



Signal Line voltage and current per LED Module

| | | LED | | | Alaı | m | |
|-------|--------------|------------------------|------|-------------|-------|-------------|---------|
| Model | Voltage Type | Signal Line Voltage | Sign | al Line Cui | rrent | Signal Line | Inrush |
| | | voltage | R, Y | G, C | В | Čurrent | Current |
| LES | AC/DC 24V | AC/DC 24V | 25mA | 20mA | 22mA | 40mA | 150mA |

• DC 24V PNP Type

| :=== | | Power | External | PNP Transistor |
|----------------|------------------------|-------------|----------|-------------------|
| | Power/ Black Wire | DC 24V | Fuse 1A | Output |
| | LED Red/ Red Wire | (a) (b) (b) | | |
| \blacksquare | LED Amber/ Orange Wire | | | <u>iD</u> -¦ |
| | LED Green/ Green Wire | | | <u>:D-</u> ! |
| | LED Blue/ Blue Wire | | | |
| | LED Clear/ White Wire | (| | |
| | <u> </u> | í | | L |



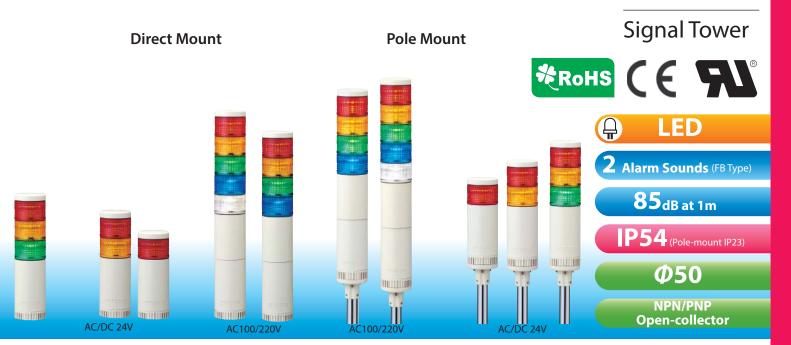












Versatile, cost and energy efficient LED Signal Tower for every need.

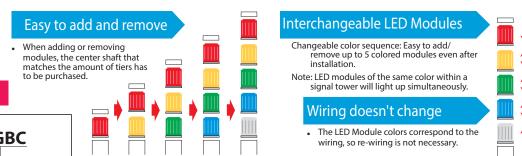




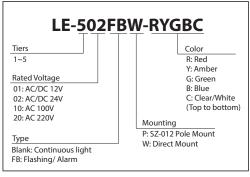
PATLITE's original dual reflection system with its exclusive hybrid prism-cut lens and 5 color LED modules creates a bright, distinctive and even illumination.

FEATURES

- PATLITE's exclusive Prism-Cut Lens designed for enhanced visibility from any direction and distance.
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Two built-in alarms (FB Type) with selectable sound patterns.
- Adjustable volume of up to 85dB (at 1m).
- Direct or pole mount installation.
- Color-coordinated wiring corresponding to the lens color for guick wiring and verification.
- Interchangeable Modules need no re-wiring, even after installation.
- Main body is constructed of ABS resin with superior resistance to impact and heat.
- Lens is made of superior impact resistant and light translucent AS resin.
- NPN/PNP Compatible (Except for LE 100/220V AC, compatible with NPN only).
- · Available colors are in Red, Amber, Green, Blue, and Clear/White.
- Conforms to the CE requirements (for 12V, 24V type only).
- UL Recognized Components (File No. E215660) (for 12V,24V type only).



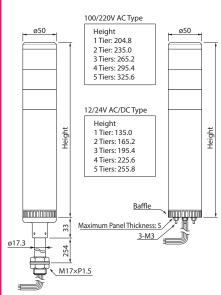
How to Order



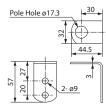
LE Type

Н

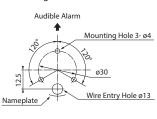
LE-FB Type







Mounting Dimension



(Unit: mm)

Specifications

| Stack | | | Power | Ma | ass |
|---------|--------|-----------|----------------|-------|-------|
| Number | Model | Voltage | Consumption | (FB)P | (FB)W |
| | LE-101 | AC/DC 12V | 1.1W | 640g | 260g |
| 1 Tier | LE-102 | AC/DC 24V | 1.6W | 0409 | 2009 |
| 1 Hei | LE-110 | AC 100V | 5.7W | 780g | 400g |
| | LE-120 | AC 220V | 3.7 ٧٧ | 780g | 4009 |
| | LE-201 | AC/DC 12V | 1.7W | 690g | 310g |
| 2 Tiers | LE-202 | AC/DC 24V | 2.2W | 0909 | 3109 |
| 2 11613 | LE-210 | AC 100V | 6.7W | 830g | 450g |
| | LE-220 | AC 220V | 0.7 VV | 8309 | 4309 |
| | LE-301 | AC/DC 12V | 2.2W | 740g | 360g |
| 3 Tiers | LE-302 | AC/DC 24V | AC/DC 24V 2.7W | | 3009 |
| 3 11613 | LE-310 | AC 100V | 7.5W | 880g | 500g |
| | LE-320 | AC 220V | 7.5 | ooog | J009 |
| | LE-401 | AC/DC 12V | 2.7W | 790g | 410g |
| 4 Tiers | LE-402 | AC/DC 24V | 3.2W | 7509 | 7109 |
| 4 Hers | LE-410 | AC 100V | 8.3W | 930g | 550g |
| | LE-420 | AC 220V | 0.5 VV | 9309 | 3309 |
| | LE-501 | AC/DC 12V | 3.2W | 0.40 | 460 |
| | LE-502 | AC/DC 24V | 3.7W | 840g | 460g |
| 5 Tiers | LE-510 | AC 100V | 0.114/ | 000- | C00= |
| | LE-520 | AC 220V | 9.1W | 980g | 600g |





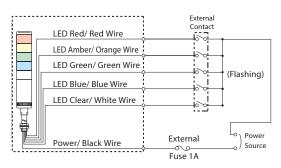




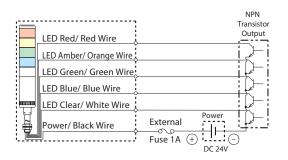
Wiring

LE Model

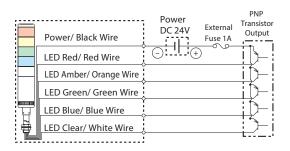
• AC/DC 24V Lighting Type



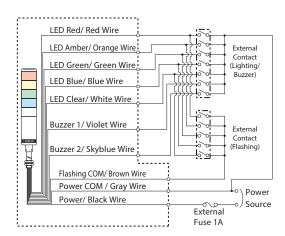
DC 24V NPN Type



• DC 24V PNP Type

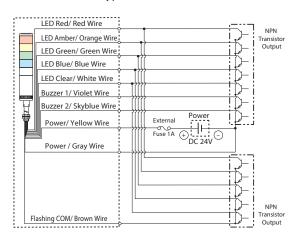


AC/DC 24V Lighting/Flashing Type

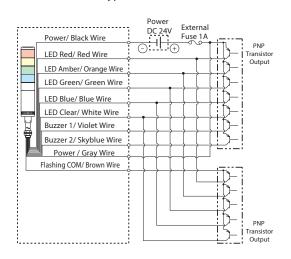


LE Model

• DC 24V NPN FB Type



• DC 24V PNP FB Type



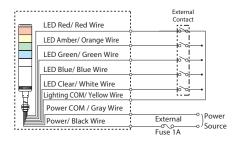
| | Signal Line Voltage and Current per LED Module | | | | | |
|---------------|--|------|---------------------|------|---------|---------|
| | | LED | | | Alarm | |
| Voltage Type | Signal Line Voltage | Sign | Signal Line Current | | | Inrush |
| | Voltage | R, Y | G, C | В | Čurrent | Current |
| AC/DC 12V | AC/DC12V | 50mA | 40mA | 44mA | | |
| AC/DC24V | AC/DC 24V | 25mA | 20mA | 22mA | 40mA | 150mA |
| AC 100V, 220V | DC 24V | 25mA | 20mA | 22mA | | |

Lead-wire color coordination table

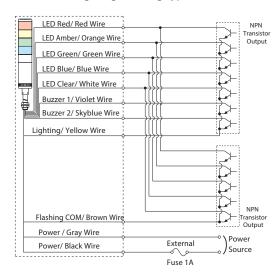
| LED Unit Color | Lead Wire Color | |
|----------------|-----------------|--|
| Red | Red | |
| Amber | Orange | |
| Green | Green | |
| Blue | Blue | |
| Clear/White | White | |

| Alarm Sounds | Lead Wire Color |
|--------------|-----------------|
| Buzzer 1 | Purple |
| Buzzer 2 | Skyblue |

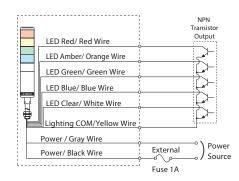
• AC Power Lighting Type



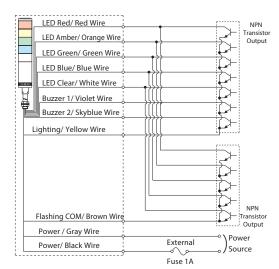
• AC Power Lighting/Flashing Type



AC Power NPN Type



• AC Power NPN FB Type





SLU5

Signal Tower







2 Alarm Sounds

85_{dB at 1m}

IP65

Φ50

NPN/PNP **Open-collector**





Versatile modular Signal Tower featuring easy assembly and wiring designed for every need.

FEATURES

- · PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Two built-in alarms (FB Type) with selectable sound patterns.
- Maximum volume of up to 85dB (at 1m).
- Direct or pole* mount installation.
- · Color-coordinated Terminal block corresponding to the lens colors for quick wiring and verification.
- Interchangeable LED Modules requires no re-wiring, even after installation.
- · Lens is made of superior impact and heat resistant polycarbonate resin for superior durability and light transmission.
- · Available Colors are in Red, Amber, Green, Blue, and Clear/White.

AVAILABLE BY SPECIAL ORDER

- Modules of the same color can be modified to operate from different terminals.
- * Optional part sold separately.



How to Order

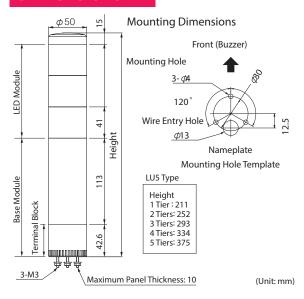
| LU5-E-R | | Base Unit LU5-02 | <u>UFB</u> |
|----------|---|---|---|
| LED Unit | Color R: Red Y: Amber G: Green B: Blue C: White/Clear | Rated Voltage 02: DC 24V Base Color Blank: Ivory Wh U : Silver K : Black | Type Blank: Continuous Light FB: Flashing/ Alarm ite |

Specifications (Module)

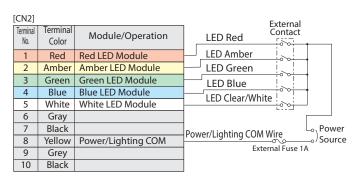
| Module Color | Model | Rated Voltage | Operating Voltage Range | Current/ Power Consumption | Mass |
|-----------------|---------|------------------|-------------------------------|----------------------------------|------|
| RED | LU5-E-R | | | 52mA/1.25W | |
| AMBER | LU5-E-Y | | | 32111A/ 1.23VV | |
| GREEN | LU5-E-G | DC 24V | 21.6V - 26.4V | | 44g |
| BLUE | LU5-E-B | | | 42mA/1.25W | |
| CLEAR | LU5-E-C | | | | |

Specifications (Base)

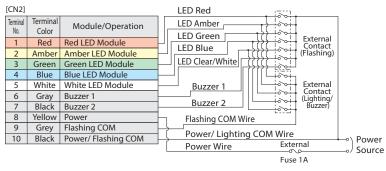
| Model | Options | Rated Voltage | Operating Voltage Range | Open Collector | Mass |
|----------|----------------|------------------|----------------------------|-------------------|------|
| LU5-02 | Continuous | DC 24V | 21.6V - 26.4V | NPN/PNP | 182g |
| LU5-02FB | 2 Sounds/Flash | DC 24V | 21.0V - 20.4V | INPIN/PINP | 200g |



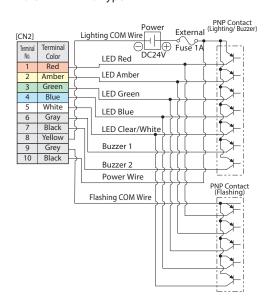
· AC/DC 24V Lighting Type



· AC/DC 24V Lighting/Flashing Type

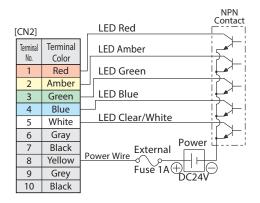


• DC 24V PNP FB Type

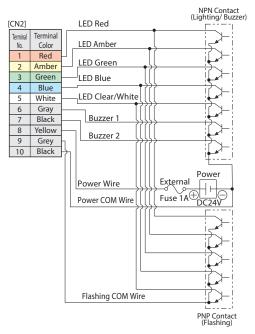


Wiring

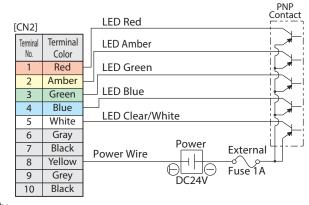
DC 24V NPN Type



DC 24V NPN FB Type

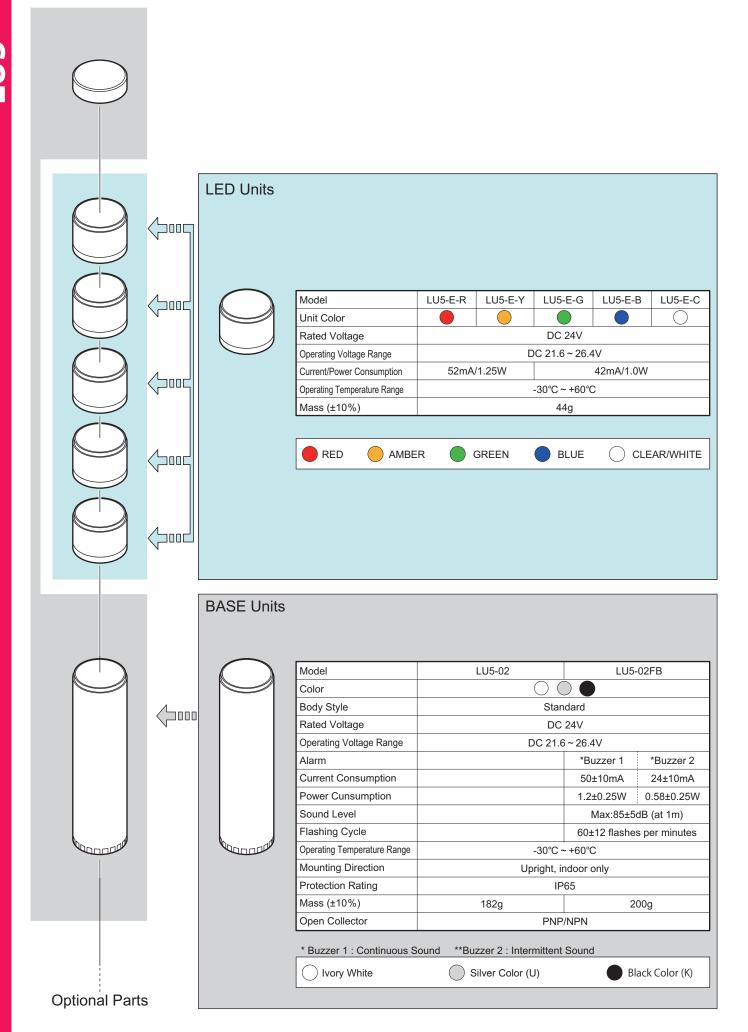


• DC 24V PNP Type

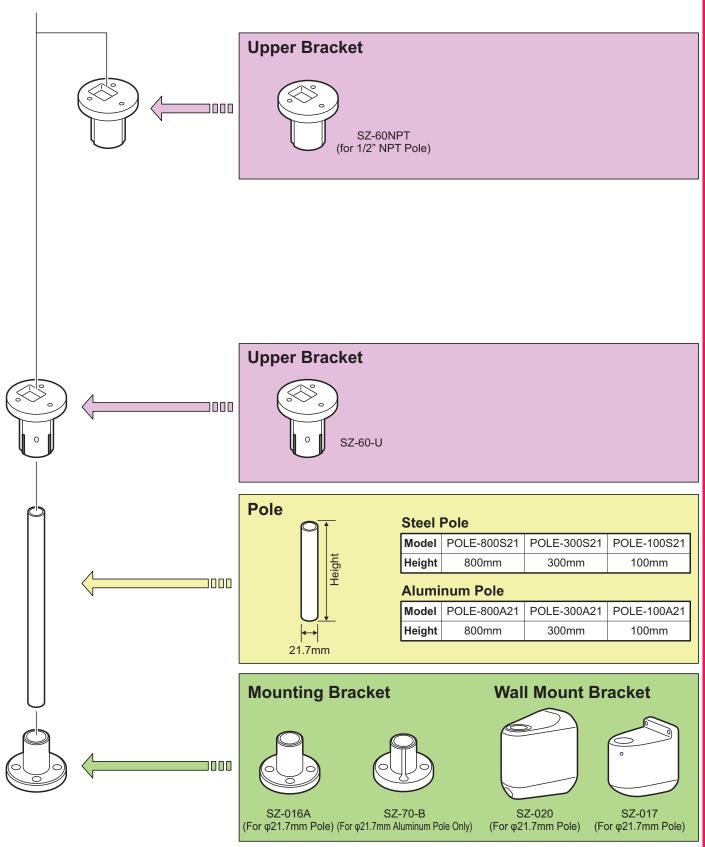


External Contact Canacity

| External C | External Contact Capacity | | | | |
|------------|---------------------------|--|--|--|--|
| | Specifications | 24V DC | | | |
| LED Unit | Current Consumption | Red,Amber: 52mA Green,Blue,White/Clear: 42mA | | | |
| (1 Unit) | Contact Capacity | Is≥100mA, Vs≥35V AC | | | |
| Buzzer | Current Consumption | 50mA | | | |
| | Inrush Current | 100mA | | | |
| | Contact Capacity | Is≥100mA, Vs≥35V AC | | | |
| Power | Current Consumption | 360mA | | | |
| Supply | Contact Capacity | Is≥500mA, Vs≥35V AC | | | |
| External C | | | | | |
| | Voltage | Fuse Amperage Rating | | | |
| | All Models | 250V, 1A | | | |



Optional Parts



EXECUTE LMS

Signal Tower



Versatile, cost and energy efficient LED Signal Tower for every need.





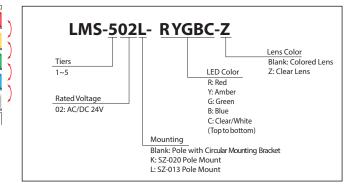
- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- · Pole-mount installation.
- Interchangeable Modules need no re-wiring, even after installation.
- · Main body is constructed of ABS resin with superior resistance to impact and heat.
- Lens is made of superior impact resistant and light translucent AS resin.
- Available colors are in Red, Amber, Green, Blue, and Clear/White.
- Has the CE mark and conforms to the requirements for the EC directive.
- Is a UL Recognized Component (File No. E215660)
 - AVAILABLE BY SPECIAL ORDER
- Model LMS-U: Silver Color Body (FB060 type).

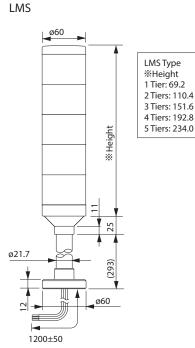


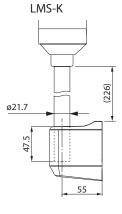


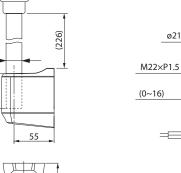
How to Order











LMS-L

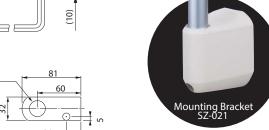
ø21.7

ø22

M4×12

99

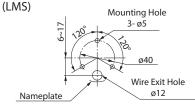
















82



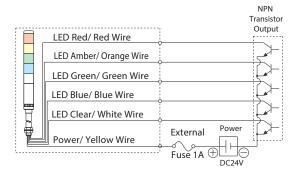
(Unit: mm)

4.5

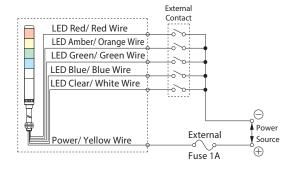
2-ø11

Wiring

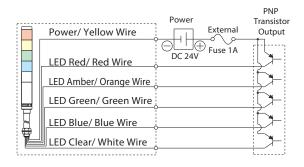
• DC 24V NPN Type



• AC/DC 24V Lighting Type



• DC 24V NPN FB Type



Specifications

| Stack Model | | Rated | | | Mass | | |
|-------------|---------|-----------|-------------|------|-------|-------|--|
| Number | Model | Voltage | Consumption | LMS | LMS-L | LMS-K | |
| 1 Tier | LMS-102 | | 1.2W | 290g | 620g | 420g | |
| 2 Tiers | LMS-202 | | 2.4W | 340g | 670g | 480g | |
| 3 Tiers | LMS-302 | AC/DC 24V | 2.8W | 390g | 720g | 540g | |
| 4 Tiers | LMS-402 | | 3.2W | 440g | 770g | 600g | |
| 5 Tiers | LMS-502 | | 3.6W | 490g | 820g | 660g | |





Versatile, cost and energy efficient LED Signal Tower for every need.





Adjustable Volume Max. 85dB at 1m



- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Two built-in alarms (FB Type) with selectable sound patterns.
- Adjustable volume of up to 90dB (at 1m).
- Direct or pole mount installation.
- Interchangeable Modules need no re-wiring, even after installation.
- Main body is constructed of ABS resin with superior resistance to impact and heat. (U type has silver body and 3m cable)
- Lens is made of superior impact resistant and light translucent AS resin.
- NPN/PNP Compatible (Except 120/220V AC LME-U, compatible with NPN only).
- Available colors are in Red, Amber, Green, Blue, and Clear/White.
- Conforms to the CE requirements (for 24V type only).
- UL Recognized Components (File No. E215660; for 24V, 120V, 230V type only)



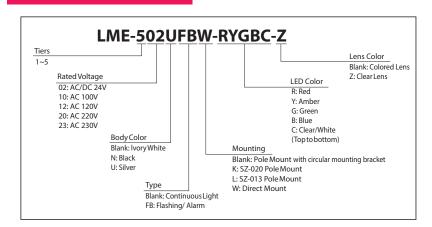
PATLITE's original dual reflection system with its exclusive hybrid prismcut lens and 5 color LED modules creates a bright, distinctive and even

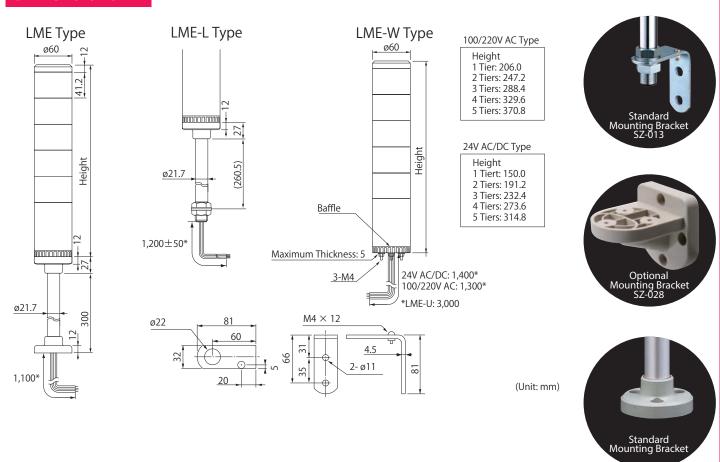
Easy to add and remove When adding or removing modules, the center shaft that matches the amount of tiers has to be purchased. Interchangeable LED Modules Changeable color sequence: Easy to add/ remove up to 5 colored modules even after Note: LED modules of the same color within a signal tower will light up simultaneously. Wiring doesn't change

The LED Module colors correspond to the

wiring, so re-wiring is not necessary.

How to Order





Specifications

| Stack | Model | Rated | Power | | Mass | |
|---------|---------|-----------|-------------|---------|----------|----------|
| Number | iviodel | Voltage | Consumption | LME | LME-L | LME-W |
| | LME-102 | AC/DC 24V | 2.2W | 0.43kg | 0.73kg | 0.27kg |
| | LME-110 | AC 100V | | | 1.06 | |
| 1 Tier | LME-112 | AC 120V | 5.1W | 0.68kg | 1.06kg | 0.52kg |
| | LME-120 | AC 220V | 3.100 | 0.00kg | | 1 0.32kg |
| | LME-123 | AC 230V | | | | |
| | LME-202 | AC/DC 24V | 3.4W | 0.48kg | 0.78kg | 0.32kg |
| | LME-210 | AC 100V | | | 1.10kg | |
| 2 Tiers | LME-212 | AC 120V | 7.1W | 1 1 | 1.10kg | 0.57kg |
| | LME-220 | AC 220V | 7.100 | 0.73kg | 0.73kg — | 0.57kg |
| | LME-223 | AC 230V | | | | |
| | LME-302 | AC/DC 24V | 3.8W | 0.53kg | 0.83kg | 0.37kg |
| | LME-310 | AC 100V | | | 1.14kg | 0.62kg |
| 3 Tiers | LME-312 | AC 120V | 7.9W | 0.78ka | | |
| | LME-320 | AC 220V | 7.900 | 0.76kg | | |
| | LME-323 | AC 230V | | | | |
| | LME-402 | AC/DC 24V | 4.2W | 0.58kg | 0.88kg | 0.42kg |
| | LME-410 | AC 100V | | | 1.18kg | 0.67kg |
| 4 Tiers | LME-412 | AC 120V | 8.7W | 0.83kg | 1.10kg | |
| | LME-420 | AC 220V | 0.7 VV | 0.03kg | | |
| | LME-423 | AC 230V | | | | |
| | LME-502 | AC/DC 24V | 4.6W | 0.63kg | 0.93kg | 0.47kg |
| | LME-510 | AC 100V | | | 1.22kg | |
| 5 Tiers | LME-512 | AC 120V | 9.5W | 0.061/2 | 1 | 0.72kg |
| | LME-520 | AC 220V | 9.5 00 | 0.00Kg | 0.86kg | |
| | LME-523 | AC 230V | | | | |

Lead-wire color coordination table

| LED Unit Color | Lead Wire Color |
|----------------|-----------------|
| Red | Red |
| Amber | Orange |
| Green | Green |
| Blue | Blue |
| Clear/White | White |

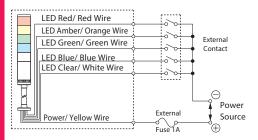
| Alarm Sounds | Lead Wire Color |
|--------------|-----------------|
| Buzzer 1 | Purple |
| Buzzer 2 | Skyblue |

Signal Line voltage and current per LED Module

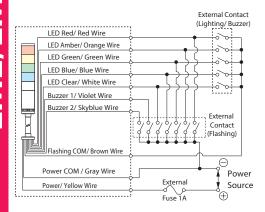
| ш | | | | | | | |
|---|------------------|------------------------|------------|-----------|-------------|---------|--|
| | | | | D | Alaı | | |
| ١ | Rated Voltage | Signal Line Voltage | Signal Lin | e Current | Signal Line | Inrush | |
| | voltage | voltage | R, Y | G, B, C | Čurrent | Current | |
| | AC/DC 24V | AC/DC 24V | | | | | |
| | AC 100V | DC 24V | 50mA | 20mA | 40mA | 250mA | |
| | AC 200V | DC 24V | | | | | |

Wiring

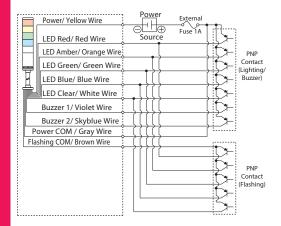
AC/DC 24V Lighting Type



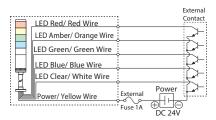
· AC/DC 24V Lighting/Flashing Type



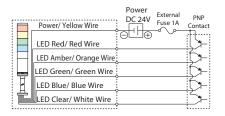
• DC 24V NPN FB Type



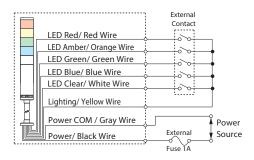
DC 24V NPN Type



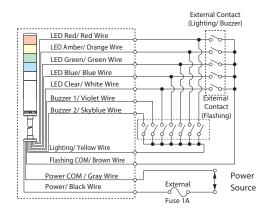
• DC 24V PNP Type



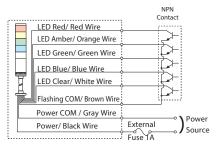
• AC Power Lighting Type



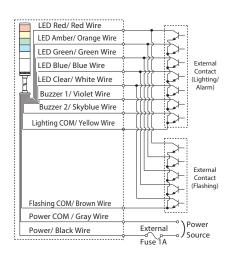
· AC Power Lighting/Flashing Type



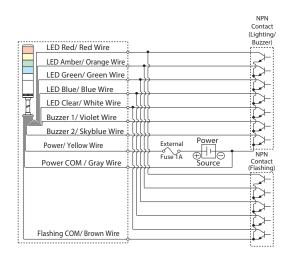
· AC Power NPN Type



• AC Power NPN FB Type



• DC 24V PNP FB Type



| MO | | | |
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Space-saving, multi-color single-tier LED Signal Tower.



Open-collector

(Max. 85dB at 1m)



PATLITE's original dual reflection system with its exclusive hybrid prism-cut lens and 5 color LED modules creates a bright, distinctive and even illumination.

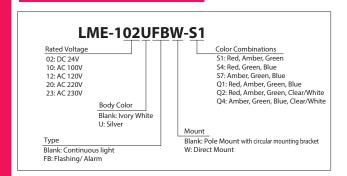
FEATURES

- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and
- Original Dual Reflection System for enhanced light diffusion; creating bright, distinctive illumination while saving energy.
- Two built-in alarms (FB Type) with selectable sound patterns.
- Adjustable volume of up to 90dB (at 1m).
- Direct or pole mount installation.
- Interchangeable Modules need no re-wiring, even after installation.
- PATLITE's single-tiered triple or quadruple colored unit is ideal for applications with limited vertical space.
- Pole-mount installation includes a circular mounting base as standard equipment.
- See "Color Coordination Combination" Section for available colors.

MODEL LME-S AVAILABLE BY SPECIAL ORDER

- Rated Voltage: AC/DC 24V only.
- **Body: Silver Color**
- Cable: Versatile and flexible 3m cable.
- PNP compatible

How to Order



Specifications

| Series | Stack | Model | Rated Voltage | Power | | |
|--------|--------|---------|---------------|-------------|------|-------|
| Series | Number | Model | Rated voltage | Consumption | LME | LME-W |
| | | LME-102 | DC 24V | 2.2W | 430g | 270g |
| | İ | LME-110 | AC 100V | | | |
| LME-S | 1 Tier | LME-112 | AC 120V | 5.1W | 860g | 520g |
| | | LME-120 | AC 220V | 3.177 | 8009 | 3209 |
| | | LME-123 | AC 230V | | | |
| | | LME-102 | DC 24V | 2.2W | 430g | 270g |
| | | LME-110 | AC 100V | | | |
| LME-Q | 1 Tier | LME-112 | AC 120V | 5.1W | 680g | F20~ |
| | | LME-120 | AC 220V | | | 520g |
| | | LME-123 | AC 230V | | | |

Patlite's unique single-tier unit with triple or quadruple colors integrated.

S1: Red, Amber, Green







Q1: Red, Amber, Green, Blue

S4: Red, Green, Blue Q1: Red, Amber, Green, Clear/White





Q1: Amber, Green, Blue, Clear/White



Clear Lens

Patlite's new single-tier, multi-color unit is ideally suited for installations requiring a multiple color display but has limited vertical space. The clear lenses are easily distinguishable between lit and unlit lamps, and the unlit look can integrate visually with the equipment it is attached to.

S7: Amber, Green, Blue



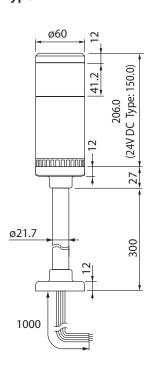




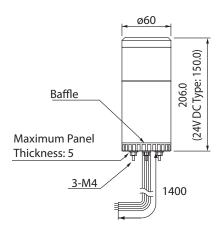


Dimensions

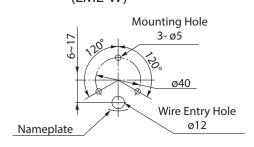
LME Type



LME-W Type



Mounting Dimensions (LME-W)



(Unit: mm)



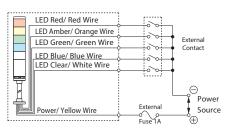




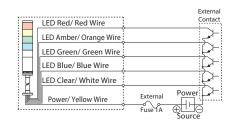


Wiring

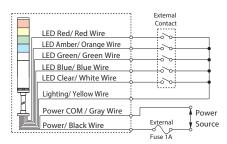
DC 24V Lighting Type



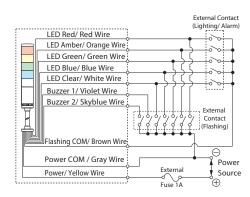
· DC 24V NPN Type



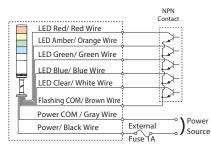
• AC Power Lighting Type



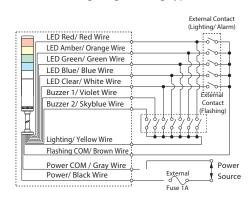
• DC 24V Lighting/Flashing Type



· AC Power NPN Type



· AC Power Lighting/Flashing Type



LME-S/Q Lead-wire Color Table

| | LED Unit Color | Lead Wire Color |
|------------|---------------------------------|----------------------------|
| S1 | Red, Amber, Green | Red, Orange, Green |
| S4 | Red, Green, Blue | Red, Green, Blue |
| S 7 | Amber, Green, Blue | Orange, Green, Blue |
| Q1 | Red, Amber, Green, Blue | Red, Orange, Green, Blue |
| Q2 | Red, Amber, Green, Clear/White | Red, Orange, Green, White |
| Q4 | Amber, Green, Blue, Clear/White | Orange, Green, Blue, White |

Signal Line voltage and current per LFD Module

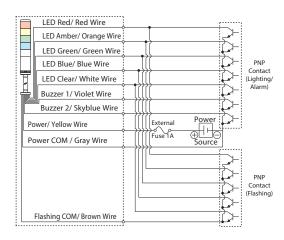
| Signal Eine Voltage and current per EED Module | | | | | | |
|--|------------------------|----------------|-----------|-------------|---------|---|
| B | C: 11: | LED Alarm | | LED Alarm | | m |
| Rated Voltage | Signal Line Voltage | Signal Lin | e Current | Signal Line | Inrush | |
| Voltage | voltage | R, Y | G, B, C | Čurrent | Current | |
| DC 24V | DC 24V | | | | | |
| AC 100V | | | | | | |
| AC 120V | | 50mA 20mA 40mA | 250mA | | | |
| AC 200V | DC 24V | SUITA | ZUITIA | 40mA | 250IIIA | |
| AC 220V | | | | | | |
| AC 230V | | | | | | |

Lead-wire color coordination table

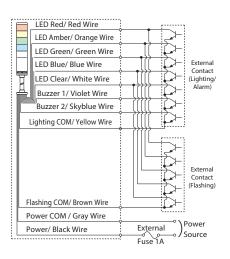
| LED Unit Color | Lead Wire Color |
|----------------|-----------------|
| Red | Red |
| Amber | Orange |
| Green | Green |
| Blue | Blue |
| Clear/White | White |

| Alarm Sounds | Lead Wire Color |
|--------------|-----------------|
| Buzzer 1 | Purple |
| Buzzer 2 | Skyblue |
| | |

• DC 24V NPN FB Type



AC Power NPN FB Type



Signal Tower







LED



Alarm Sounds (FB Type)

90dB at 1m (FB Type)

P65 (FB Type:IP54)

Φ70

Open-collector



The Signal Tower with a water resistant design for wet environments.

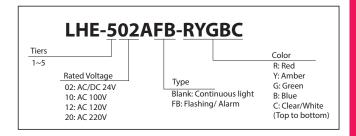


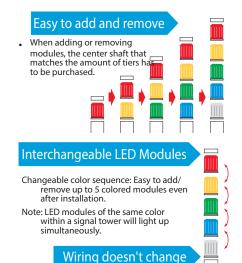
PATLITE's original dual reflection system with its exclusive hybrid prism-cut lens and 5 color LED modules creates a bright, distinctive and even illumination.

FEATURES

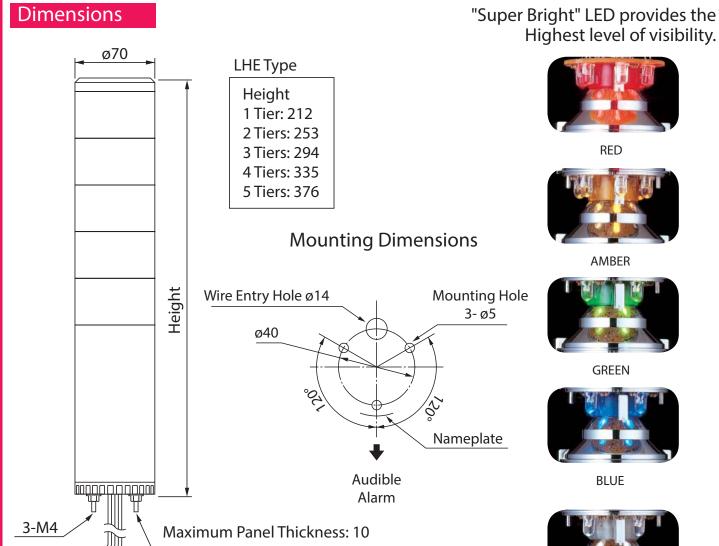
- Original LED reflection system to improve brightness and provide maintenance-free operation.
- · Two built-in alarms (FB type)
- · Adjustable volume of up to 90dB (at 1m).
- Direct mount installation is standard; pole-mount is available with the optional mounting pole.
- Interchangeable Modules need no re-wiring, even after installation.
- Lens is made of superior impact and heat resistant AS resin for superior durability and light
- · Available colors are in Red, Amber, Green, Blue, and Clear/White.
- Has the CE mark and conforms to the requirements for the EC directive. (for 24V type)
- Is a UL Recognized Component (File No. E215660, for 24V type only).

How to Order





The LED Module colors correspond to the wiring, so re-wiring is not necessary.



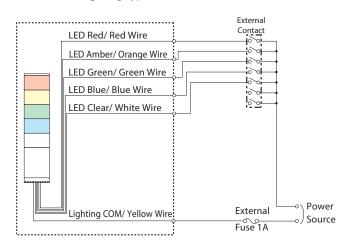
(Unit: mm)

CLEAR/WHITE

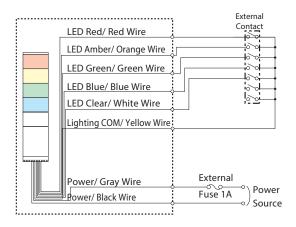
Specifications

| Stack Number | Model | Rated Voltage | Power Consumption | Mass |
|--------------|---------------|---------------|-------------------|------|
| | LHE -102A/AFB | AC/DC 24V | 2.2W | 400g |
| 1 Tier | LHE -110A/AFB | AC 100V | | |
| l Her | LHE -112A/AFB | AC 120V | 4.7W | 650g |
| | LHE -120A/AFB | AC 220V | | |
| | LHE -202A/AFB | AC/DC 24V | 3.4W | 450g |
| 2 Tiers | LHE -210A/AFB | AC 100V | | |
| 2 Hers | LHE -212A/AFB | AC 120V | 6.4W | 700g |
| | LHE -220A/AFB | AC 220V | | |
| | LHE -302A/AFB | AC/DC 24V | 4.4W | 500g |
| 3 Tiers | LHE -310A/AFB | AC 100V | | |
| J Heis | LHE -312A/AFB | AC 120V | 7.9W | 750g |
| | LHE -320A/AFB | AC 220V | | |
| | LHE -402A/AFB | AC/DC 24V | 5.4W | 550g |
| 4 Tiers | LHE -410A/AFB | AC 100V | | |
| 4 Hers | LHE -412A/AFB | AC 120V | 9.4W | 800g |
| | LHE -420A/AFB | AC 220V | | |
| | LHE -502A/AFB | AC/DC 24V | 6.4W | 600g |
| 5 Tiers | LHE -510A/AFB | AC 100V | | |
|) ilers | LHE -512A/AFB | AC 120V | 10.9W | 850g |
| | LHE -520A/AFB | AC 220V | | |

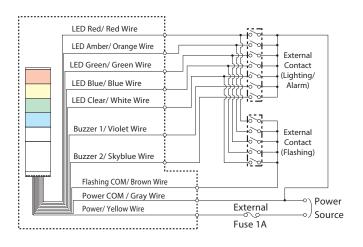
· AC/DC 24V Lighting Type



· AC Power Lighting Type



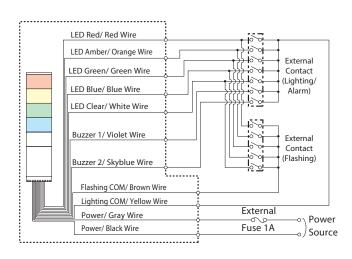
· AC/DC 24V Lighting/Flashing Type



| | Signal Line voltage and current per LED Module | | | | | | | | | | |
|---------------|--|---------------------|---------|-------------|---------|--|--|--|--|--|--|
| | | | LE | | Alarm | | | | | | |
| Rated Voltage | Signal Line Voltage | Signal Line Current | | Signal Line | Inrush | | | | | | |
| | | R, Y | G, C, B | Čurrent | Current | | | | | | |
| ı | AC/DC 24V | AC/DC 241/ | E0 A | 404 | | | | | | | |

| | l c | 111 | | | | | |
|---------------|------------------------|---------------------|---------|---------|---------|-------------|--------|
| Rated Voltage | Signal Line Voltage | Signal Line Current | | | | Signal Line | Inrush |
| | ronage | R, Y | G, C, B | Current | Current | | |
| AC/DC 24V | AC/DC 24V | 50mA | 40mA | | | | |
| AC 100V | | | | 40mA | 1 T O A | | |
| AC 120V | DC 24V | 50mA | 40mA | 40IIIA | 150mA | | |
| AC 220V | | | | | | | |
| | | | | | | | |

• AC Power Lighting/Flashing Type



Lead-wire color coordination table

| LED Unit Color | Lead Wire Color |
|----------------|-----------------|
| Red | Red |
| Amber | Orange |
| Green | Green |
| Blue | Blue |
| Clear/White | White |

| Alarm Sounds | Lead Wire Color |
|--------------|-----------------|
| Buzzer 1 | Purple |
| Buzzer 2 | Skyblue |







2 Alarm Sounds (FB Type)

90dB at 1m (FB Type)

IP65

Φ70

NPN/PNP Open-collector













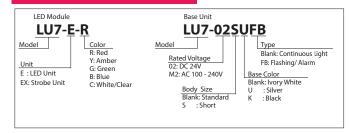
Versatile modular Signal Tower featuring easy assembly and wiring designed for every need.

FEATURES

- PATLITE's exclusive hybrid prism-cut lens designed for enhanced visibility from any direction and distance.
- Two built-in alarms (FB type)
- Adjustable volume of up to 90dB (at 1m).
- Direct mount installation is standard; pole-mount is available with the optional mounting pole.
- · Color-coordinated Terminal block corresponding to the lens colors for quick wiring and verification.
- Interchangeable LED Modules requires no re-wiring, even after installation.
- Lens is made of superior impact and heat resistant polycarbonate resin for superior durability and light transmission.
- Available Module Colors are in Red, Amber, Green, Blue, and Clear/White.
- · Available Base colors are in Black, Silver and Ivory White.
- · Conforms to the CE requirements (for 24V type).
- Is a UL Recognized Component (File No. E215660).
- Product Shipped in a modular style for customer's customized assembly.



How to Order

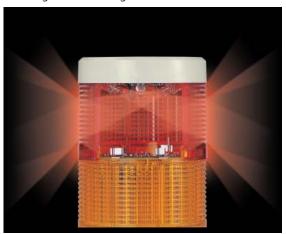


THE **LU7 Series** Advantage 70mm diameter

Innovative LED Modular Style Signal Tower

Ultra-bright LEDs combined with an Innovative prism-cut lens design

With the innovative prism-cut lens, a small diameter can emit enough light to be seen from great distances while reducing costs of the Signal Tower.



Ultra-bright LED

Two selectable alarms integrated in the Base Module

Adding sound to a visual signal enhances the critical nature of the status, bringing more attention to certain conditions while still allowing up to five LED modules to be used because the alarms are built into the base.



Delivers Sound of up to 90 dB (at 1m)

Alarm can be easily heard over ambient noises.

Modular Design

With a modular design, freely configuring and assembling a Signal Tower is easy and the modules can be put away for when the machine has to be shipped to reduce shipping costs and shipping crate material.



Modular Construction

Color-coded & spring-loaded Terminal Block

Easier wiring and more reliable in comparison to screw-type connections with each terminal block color corresponding to the LED module color.



Wiring Terminals

O-rings

The O-rings seal the tower from liquids so that an IP-65 rating can be achieved to allow the tower to be used in wet environments.



IP65 Protection

IP65 & IP66 with Optional Cable Gland

The new LU7 is designed to add a cable gland so that a rating of IP-65 can be achieved to be used in harsher environments. (Cable Gland is to be supplied

by the user.)



LU7 Base Units

| Model | LU7-02S LU7-02 LU7-02FB | | LU7-02M2 | LU7-02M2FB | | Unit Color Variation | | | | |
|--|-------------------------|---------------------------------|---------------------------|----------------|----------------|---------------------------|--------------|------------------|--|-------------|
| Rated Voltage | | DC | 24V | | AC 100 | to 240V (50/ | 60Hz) | | Short Body | |
| Operating Voltage Range | | DC 21. | 6 - 26.4V | | AC 90 | to 250V (50/6 | 50Hz) | Ivory White | Silver | Black |
| Alarm | _ | _ | Buzzer 1* | Buzzer 2** | _ | Buzzer 1* | Buzzer 2** | | | |
| Current Consumption | _ | _ | 50±10mA | 24±10mA | _ | 50±10mA | 24±10mA | | | |
| Power Consumption | _ | | 1.2±0.25W | 0.58±0.25W | _ | 1.8±0.25W | 1.3±0.25W | - | The same of the sa | |
| Sound Level | _ | | Max: 90±5dB (at 1m) | | _ | Max: 90±5 | ` ' | LU7-02S | LU7-02SU | LU7-02SK |
| | | | Min: 70dB or less (at 1m) | | | Min: 70dB or less (at 1m) | | Standard Body | | |
| Flash Cycle | _ | _ | 60±12 flashes per minute | | _ | 60±12 flashe | s per minute | | | |
| Operating Temperature Range | | -30°C 1 | :o +60°C | | -25°C to +55°C | | | | | |
| Mounting Direction | | | Up | oright, Indoor | Only | | | | | |
| Protection Rating | | IP65 (IP66 with Cable Gland***) | | | | | | | | |
| Mass (±10%) | 150g 250g | | 28 | 0g | 310g | 34 | 0g | Name of the last | · Innerent | |
| Open Collector | PNP/NPN | | | | | NPN | | | | |
| *Buzzer 1: Continuous **Buzzer 2: Intermittent ***Cable Gland to be supplied by user | | | | | | | | LU7-02/M2 | LU7-02U/M2U | LU7-02K/M2K |

Specifications (Module)

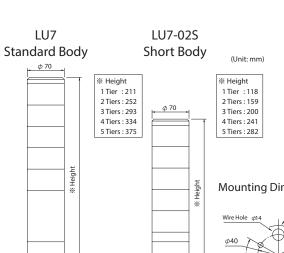
| LU7 LED Units* | No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa | Bir (20) | | | 10 172111 | | | | |
|-----------------------------|--|----------------|-----------------|---------------|----------------------|--|--|--|--|
| Model | LU7-E-R | LU7-E-Y | LU7-E-G | LU7-E-B | LU7-E-C | | | | |
| Unit /LED Color | LED Unit Red | LED Unit Amber | LED Unit Green | LED Unit Blue | LED Unit White/Clear | | | | |
| Rated Voltage | | | DC 24V | | | | | | |
| Operating Voltage Range | | | DC 21.6 - 26.4V | | | | | | |
| Current/Power Consumption | 52mA | /1.25W | 42mA/1.0W | | | | | | |
| Operating Temperature Range | | -30°C to +60°C | | | | | | | |
| Mass (±10%) | | 60g | | | | | | | |

^{*}Operates on LU7-02, LU7-02FB, LU7-M2 and LU7-M2FB Base Units

Dimensions

Wiring

External Contact Capacity



| | Specifications | DC 24V | AC 100 - 240V | | | |
|----------|---------------------|---|-------------------------------------|--|--|--|
| LED Unit | Current Consumption | Red, Amber: 52mA Green, Blue, White/Clear: 42mA | | | | |
| (1 Unit) | Contact Capacity | Is≥100mA, Vs≥AC 35V | | | | |
| | Current Consumption | 50mA | | | | |
| Alarm | Inrush Current | 100mA | | | | |
| | Contact Capacity | Is | ≥100mA, Vs≥AC 35V | | | |
| Power | Current Consumption | 360mA | 40mA (250VAC) - 110mA (90VAC) | | | |
| lc 1 | Contact Capacity | Is≥500mA Vs≥AC 35V | 9A (90V) - 25A (250V) Vs≥AC 250V | | | |

External Contact Fuse

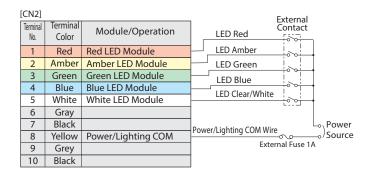
| Voltage | Fuse Amperage Rating |
|------------|----------------------|
| All Models | 250V, 1A |

Mounting Dimensions Nameplate Mounting Hole 3-44

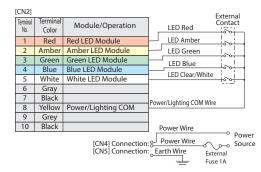
Front (Buzzer)

Wiring (cont.)

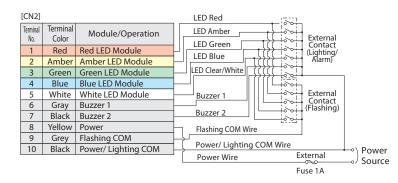
AC/DC 24V Lighting Type



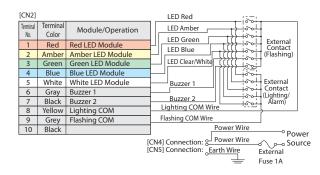
AC Power Lighting Type



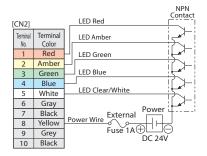
· AC/DC 24V Lighting/Flashing Type



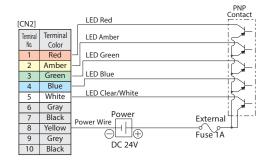
· AC Power Lighting/Flashing Type



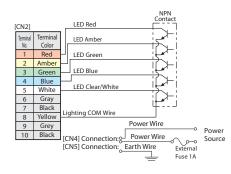
DC 24V NPN Type



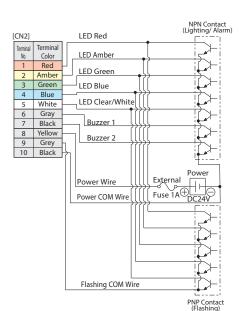
• DC 24V PNP Type



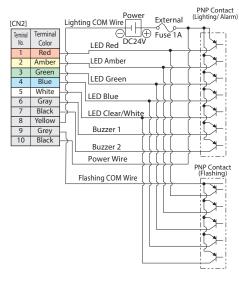
AC Power NPN Type



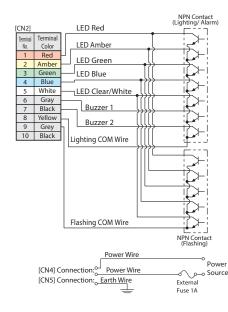
DC 24V NPN FB Type

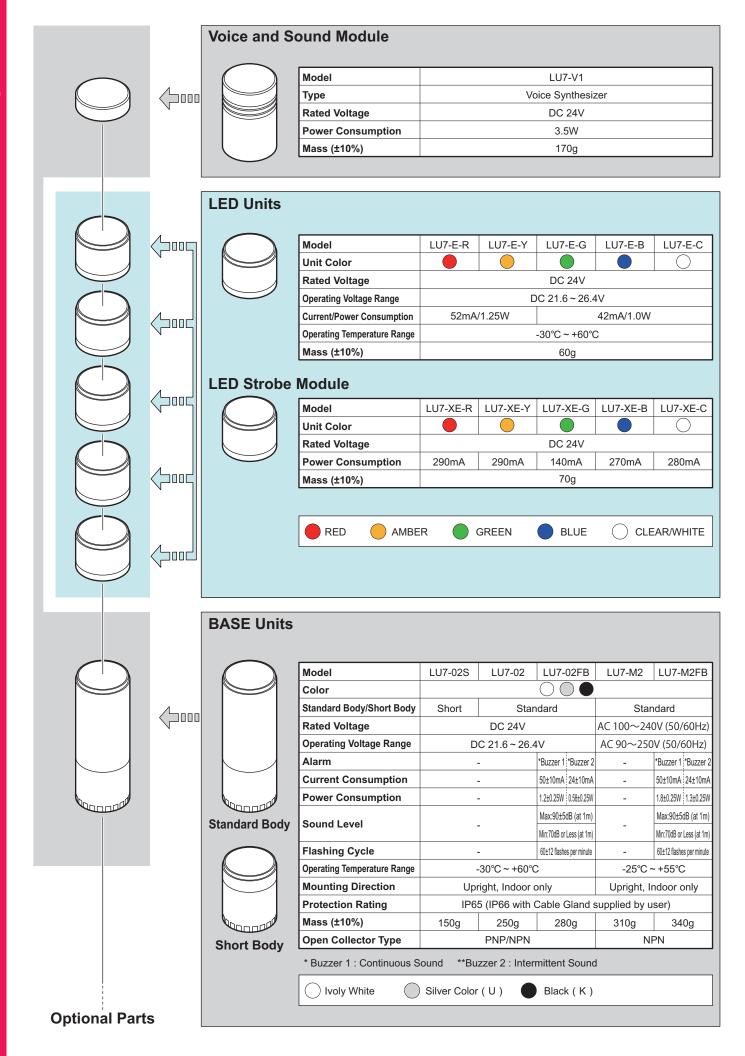


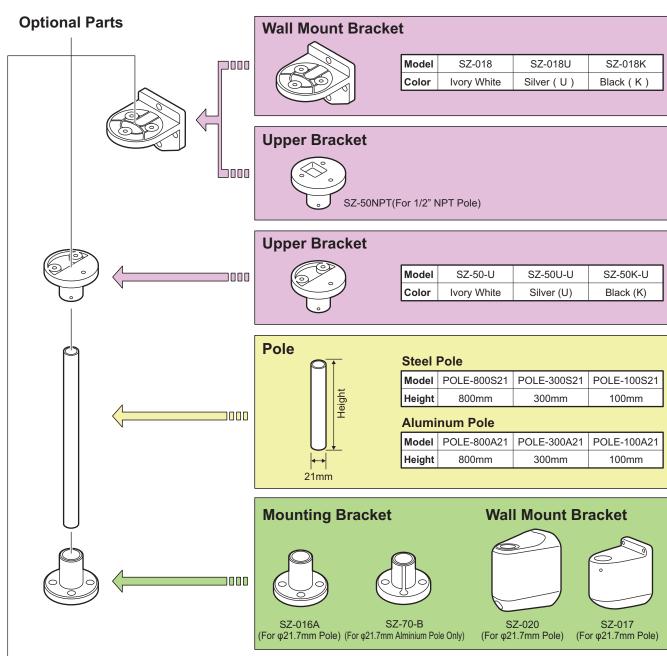
• DC 24V PNP FB Type

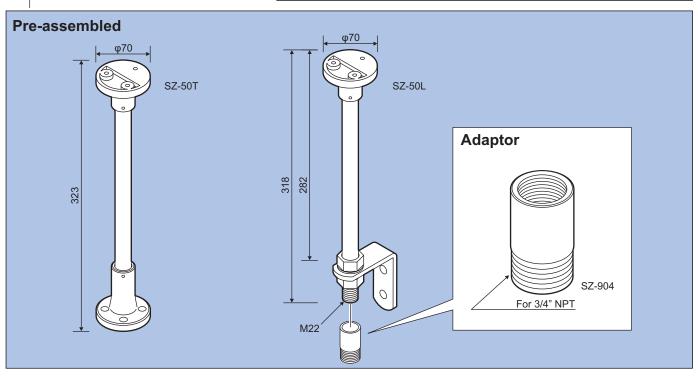


AC Power NPN FB Type









LU7-XE Signal Tower



Ø70

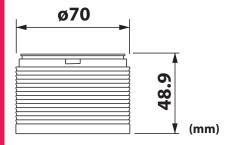


Stackable LED strobe module saves energy and requires low maintenance.

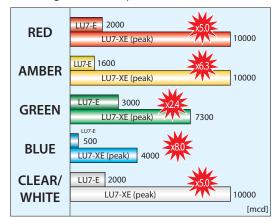
FEATURES

- Application* can be used with the LU7 Series Signal Tower.
- A visually stunning double-flash light pattern for immediate attention.
- Incorporates super-bright LED technology for enhanced visibility.
- Easily stackable and interchangeable, before or after installation.
- Has the CE mark and conforms to the requirements for the EC directive.
- Is UL Listed (File No. E215660) for use with LU7-02 and LU7-02FB.
- (1) For use with LU7-02, LU7-02S, and LU7-02FB bases only. Note: When using with LU7-02FB, the module should be controlled by the continuous common wire.

Dimensions



Brightness Comparison



Specifications

LU7 LFD Strobe Units**

| LOT LLD SHODE OTHES | | | | | | | | | |
|---------------------|-------------|------------|-------------|-------------|------------------|--|--|--|--|
| Model | LU7-XE-R | LU7-XE-Y | LU7-XE-G | LU7-XE-B | LU7-XE-C | | | | |
| Unit Color | LED Unit Re | LED Unit A | LED Unit Gr | LED Unit Bl | LED Unit Cle ite | | | | |
| Rated Voltage | | DC 24V | | | | | | | |
| Current Consumption | 290 |)mA | 140mA | 270mA | 280mA | | | | |
| Mass (±10%) | | 70g | | | | | | | |

^{**}Operates with LU7-02, LU7-02S, and LU7-02FB bases only. When using with LU7-02FB, the module should be controlled by the continuous common wire.

| MO | | |
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2 Alarm Sounds (FB Type)

90dB at 1m (FB Type)

IP65 (B Type:IP54)

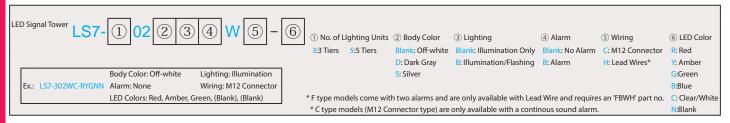
Φ70

NPN/PNP **Open-collector**



New concept! Smart & smooth signal light body which improves harmony with equipment.

How to Order



Specifications

| | Number of | | Rated | | Rated Current | Maximum | Maximum Sound | Operating | Protection | Mass: Lead- | wire Type (H) | Mass: M12 Conn | ector Type (C) |
|---------|-------------------|-----------------------------------|---------|-------------------|--|--|--|-----------------------|-----------------------------|---------------------------|--------------------------------------|---------------------------|----------------|
| Model | Lighting Units | Body Color | Voltage | Mounting | l | Rated Current | Pressure | Temperature Range | Rating | Illumination (No Mark) | Illumination/Flash/ 2 Alarms (FB) | Illumination (No Mark) | 1 Alarm (B) |
| LS7-302 | 3 Tiers | Off-white (Blank) Dark Grey | DC 24V | Direct | Red: 20mA Amber, Green, Blue, | Red: 35mA Amber, Green, Blue, | Buzzer1 ab. 82dB Lead-wire Type (Intermittent Beep1) M12 Connector Type (Continuous Beep) | -30°Cto+60°C | Illumination Type: IP65* | 280g | 370g | 260g | 320g |
| LS7-502 | 5 Tiers | (D) Silver (S) | (±10%) | (Indoors Only) | Clear/White 30mA Alarm 40mA | Clear/White 40mA Alarm 55mA | Buzzer2 ab. 85dB Lead-wire Type (Intermittent Beep2) M12 Connector Type (None) | (Less than 85% RH) | Buzzer Type: IP54 | ±10% | ±10% | ±10% | ±10% |

^{*} IP67 available by special order



By changing the surface of the body into a smoother form, the adhesion of water and dust is reduced. Also, the structure does not have screws, shafts, etc., exposed, which gives comfort for applications in the lithium ion battery manufacturing and food processing industries. And, with the outer lens structure, the risk of environmental stress cracks due to oil mist is reduced. The lens cover is made of shock-resistant polycarbonate.

A smooth-surfaced body without any metal exposed

A sound heard throughout various environments

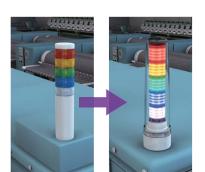
In addition to the existing lead wire, M12 connector quick disconnect is also available. Moreover, when moving to carry and to go out of the device, it is possible

to detach it easily with Speaker Horn (Alarm Type) the M12 connector.

Frequency graph of a metal-working shop sound mixed with buzzer2 alarm. (Inter-corporate

* Buzzer1 (H type or C type) is measured at 2000Hz.





Easy attachment, no need for Relay Box

In addition to the conventional three-bolt installation, a twobolt installation from the upper mount has been added to help make a smoother installation. Therefore, by using the mount as a relay box, it reduces the manufacturing cost for an extra relay box, which used to be a necessity up until now.

Fixed Mounting





M12 Connector Wiring & Tiered Construction

The stackable design and M12 connector quick disconnect (Cable Sold Separate) can drastically reduce labor and time. Moreover, the disconnection and reconnection of the body when removing it to relocate a machine has become smoother.

Stackable Construction



High-contrast Visibility

With the adoption of an inner lens, the LED emits a more efficient light. Moreso, the contrast is increased when the Signal Tower lights up or flashes, with a distinguishable signal color which remarkably improves visibility.

Remarkable display in ANY environment

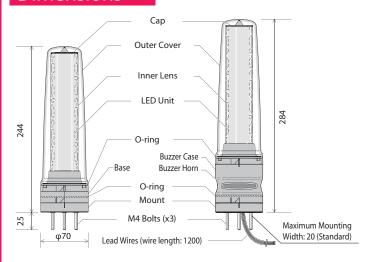
The LS7 has passed various tests for water resistance, dust, temperature, and variable vibration frequency tests, etc., so that it can endure various environments.



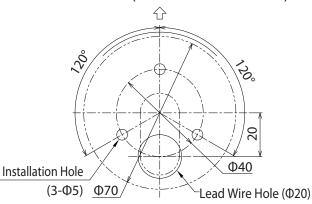
All-plastic Bracket

Like the body, the smooth-shaped platform bracket won't collect water or dust. Since no metal parts like screws and shafts are exposed, worries of food tampering can be put to rest in the food process lines.





Product Front (Buzzer Horn Direction)



Optional Parts

Like the body, the smooth-shaped platform bracket won't collect water or dust. Since no metal parts like screws and shafts are exposed, worries of food contamination can be put to rest in food processing.

Platform Bracket SZ-100



Wall Mounting Bracket SZ-110

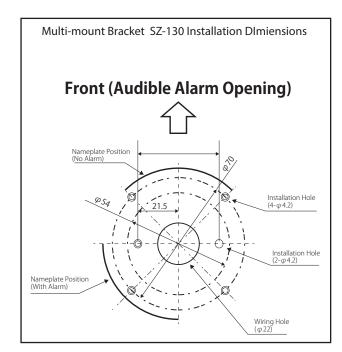


Multi-mount Bracket SZ-130









M12 Connector & Cable (Manufactured by the OMRON Corp.) SZ-120-02 Cable Length 2m (XS2F-D821-DH0-R) SZ-120-05 Cable Length 5m (XS2F-D821-GH0-R) SZ-120-10 Cable Length 10m (XS2F-D821-JH0-R)

* Only for connecting to the LS7.



Outer Cover for LS7*

Material: Polycarbonate



Replacement Parts

O-ring for LS7 Material: Silicone

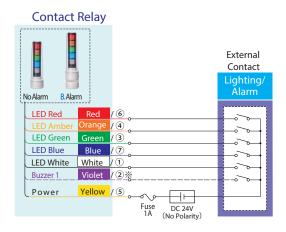


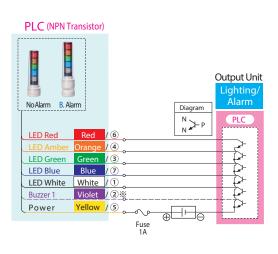
Mount Cover for LS7 (Accessory)

Material: Silicone

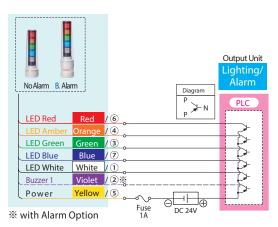


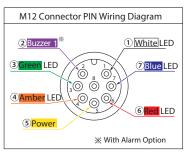
Wiring

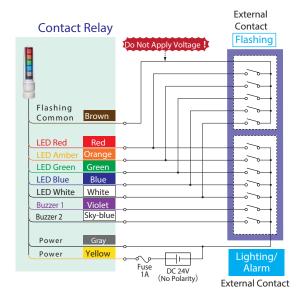


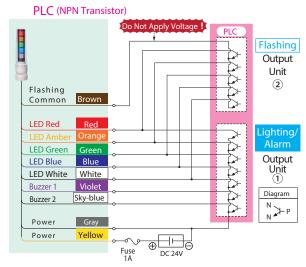


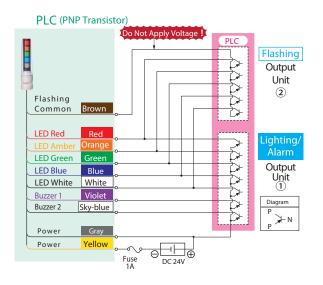












Note: When connecting the PLC outputs for illumination and flashing functions, the wiring (Common Wires) has to be separate between the flashing and non-flashing circuits.

WE/WEP Signal Tower **RoHS (F \$\infty\$)







2 Alarm Sounds (FB Type)

90dB at 1m (FB Type)

P65 (FB Type: IP54)

NPN/PNP Open-collector

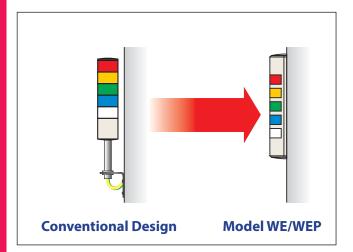


Ultra slim half-moon shaped Signal Tower offers seamless integration with most equipment.

FEATURES

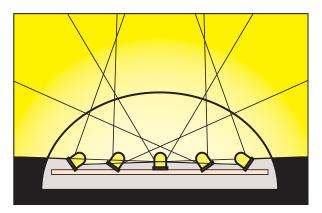
- Clear vertical-cut lens for enhanced illumination over a wide perspective.
- Has an optional built-in audible alarm (FB type) with an output of 90dB (at 1m).
- Installation can be vertical or horizontal.
- Two body color selections of chrome plated or ivory white.
- Lens made of superior impact and heat resistant polycarbonate resin for superior durability and enhanced illumination.
- Both NPN and PNP Compatible for direct connection to a PLC (24V DC ONLY)
- Two lighting patterns of flashing and continuous lighting.
- Dust and water resistance rating of IP65 (except for FB type: IP54).
- Available colors are in Red, Amber, Green, Blue, and Clear/White.
- Has the CE mark and conforms to the requirements for the EC directive.
- Is a UL Recognized Component (File No. E215660).

37.5mm Super-thin Design!

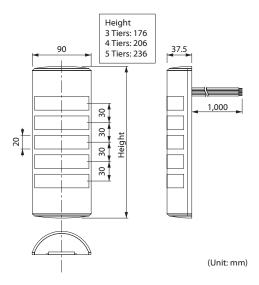


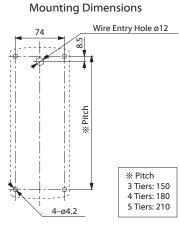
Patlite has perfected a 37.5mm-thin design that significantly enhances integration with the equipment as a built-in signal system.

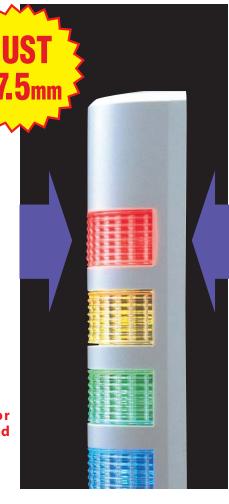
Exclusively New LED Lighting Design



Patlite has created a revolutionary patented lighting design in which multiple LEDs project light across a broad peripheral area, ensuring equal intensity at the sides as well as the front. This design, with its side-projection technology, is a unique achievement in signal light design.









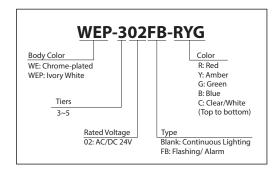
IP65 construction is safe for installation in damp locations and dusty factory environments.

How to Order

Alarm Sounds

Buzzer 1

Buzzer 2



Specifications

| Stack Number | ack Number Model | | Power Consumption | Mass |
|--------------|------------------|-----------|-------------------|------|
| 2.7 | WE(P)-302 | | 1.7W | 260g |
| 3 Tiers | WE(P)-302FB | | 2.7W | 300g |
| 4 Tiers | WE(P)-402 | AC/DC 24V | 2.0W | 310g |
| 4 Hers | WE(P)-402FB | AC/DC 24V | 3.2W | 350g |
| 5 Tiers | WE(P)-502 | | 2.7W | 310g |
| o ners | WE(P)-502FB | | 3.7W | 350g |

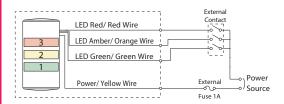
Lead Wire Color Purple

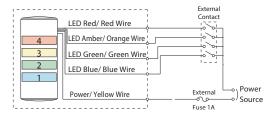
Skyblue

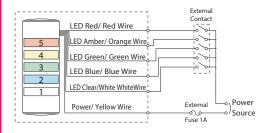
| Signal Line voltage and current per LED Module | | | | | | | |
|--|--------|------------------|------------------------|---------------------|---------|-------------|---------|
| | Model | Rated Voltage | Signal Line Voltage | LED | | Alarm | |
| | | | | Signal Line Current | | Signal Line | Inrush |
| | | | | R, Y | G, B, C | Čurrent | Current |
| | WE/WEP | AC/DC 24V | AC/DC 24V | 30mA | 25mA | 40mA | 250mA |

Wiring

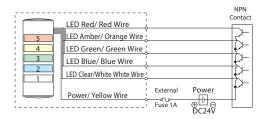
• AC/DC 24V Lighting Type



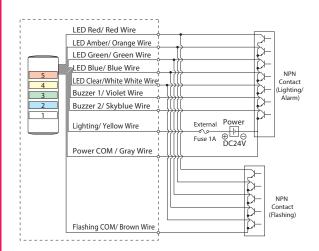




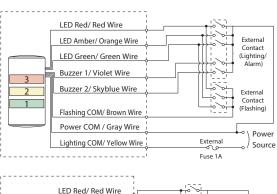
• DC 24V NPN Type

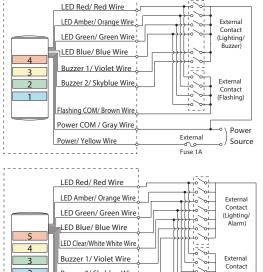


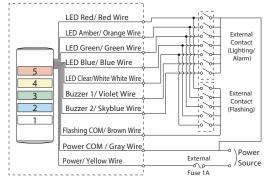
DC 24V NPN FB Type



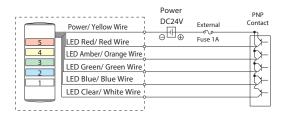
· AC/DC 24V Lighting/Flashing Type



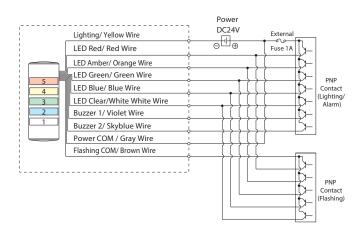




• DC 24V PNP Type



• DC 24V PNP FB Type





WME-A

Signal Tower















Alarm Sounds (FB Type)

90_{dB at 1m}

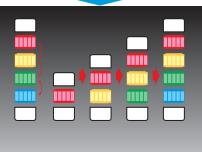
P65 (FB Type:IP54)

W70 D80

NPN/PNP **Open-collector**

Exclusive wall-mount design saves space and enhances its integral appearance.

Interchangeable LED Modules



LED Tiers are changeable, even after installation.

However, the Center Shaft also has to be purchased.

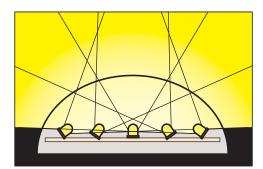
FEATURES

- Built-in audible alarm (FB type)
- Volume output of up to 90dB (at 1m).
- Easy vertical or horizontal installation when used with mounting brackets.
- Interchangeable Modules need no re-wiring, even after installation.
- Install as an option with a compatible household switch box (JISC 8336 with 82.5m pitch).
- · Main body is made of ABS resin.
- · Lens is made with superior impact and heat resistant polycarbonate resin for superior durability and illumination.
- Compatible for use with NPN or PNP controlled inputs (24V DC type ONLY).
- · Available Colors are in Red, Amber, Green, Blue, and Clear/White.
- Has the CE mark and conforms to the requirements for the EC directive.
- Is a UL Recognized Component (File No. E215660).

AVAILABLE BY SPECIAL ORDER

- 1 Tier Type
- Individual module control for single color

Exclusively New LED Lighting Design

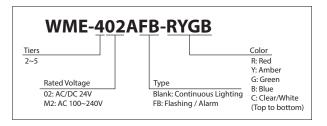


Patlite has created a revolutionary patented lighting design in which multiple LEDs project light across a broad peripheral area, ensuring equal intensity at the sides as well as the front. This design, with its side-projection technology, is a unique achievement in signal light design.

5 "Super Bright" LED Colors to choose from!

Clear/White Red Amber Green Blue

How to Order



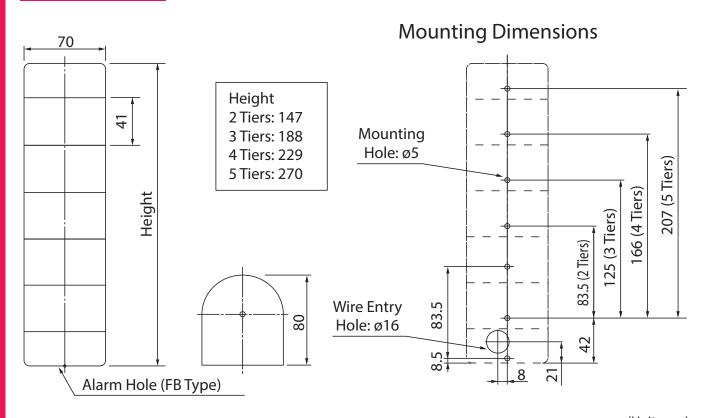
Specifications

| Stack Number | Model | Rated Voltage | Power Consumption | Mass |
|-----------------|----------|---------------|----------------------|-------|
| 2 Tiers | WME-202 | AC/DC 24V | 2.7W | 390g |
| 2 Hers | WME-2M2A | AC 100 - 240V | 4.6W | 460g |
| 3 Tiers | WME-302 | AC/DC 24V | 3.3W | 470g |
| 3 Hers | WME-3M2A | AC 100 - 240V | 6.0W | 540kg |
| 4 Tiers | WME-402 | AC/DC 24V | 4.4W | 550g |
| 4 11613 | WME-4M2A | AC 100 - 240V | 8.0W | 620g |
| 5 Tiers | WME-502 | AC/DC 24V | 5.5W | 630g |
| 3 Hers | WME-5M2A | AC 100 - 240V | 10.0W | 700g |

Signal Line voltage and current per LED Module

| | | | LED | | Alarm | |
|----------|-------------------------------------|-----------|------------|-----------------------------------|--------|---------|
| Model | I Rated Voltage Signal Line Voltage | | Signal Lin | Signal Line Current Signal Line | | Inrush |
| | | | R, Y | G, B, C | | Current |
| WME-A | AC/DC 24V | AC/DC 24V | 35mA | 50mA | 40mA | 250mA |
| VVIVIE-A | AC 100V - 240V | DC 24V | JOSHIA | JUITA | HUITIA | ZJUIIA |

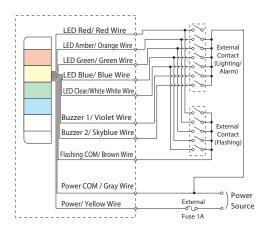
Dimensions



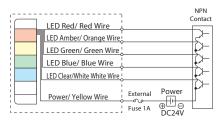
- The LED Colors are stackable, even after installation. However, the applicable Center Shaft and backplate needs to be purchased.
- Install with the alarm in the downard direction in order to preserve the IP54 rating.

Wiring

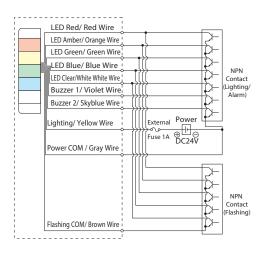
• AC/DC 24V Lighting/Flashing Type



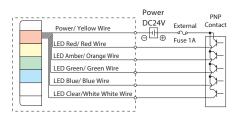
• DC 24V NPN Type



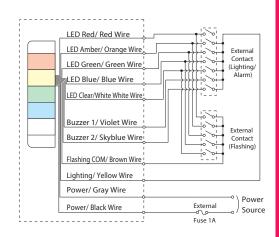
• DC 24V NPN FB Type



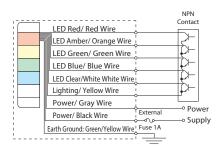
• DC 24V PNP Type



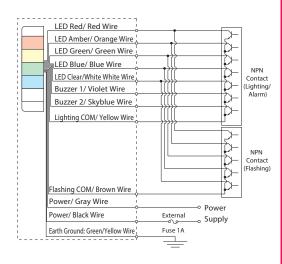
AC Power Lighting/Flashing Type



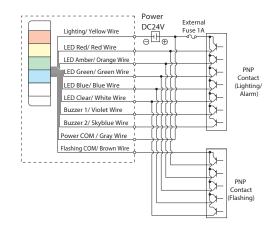
AC Power NPN Type



· AC Power NPN FB Type



• DC 24V PNP FB Type



끯LGE





Open-collector



Large Signal Tower featuring enhanced visibility and downward illumination, designed for large machines.

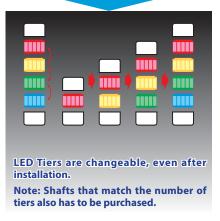
Triple Reflection System

PATLITE's triple-reflection system creates an even brighter and distinctive illumination with its exclusive hybrid prism-cut lens for 5 color LED module variations.

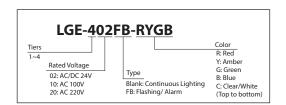
FEATURES

- PATLITE's large prism cut lens to enhance illumination in the downward direction. (Lens Size: ϕ 100mm x 60mm high)
- The FB type offers a flashing and continuous lighting pattern.
- A built-in buzzer (FB type) has a sound of up to 85dB (at 1m).
- Direct mount Installation.
- Interchangeable Modules need no re-wiring, even after installation.
- Lens is made of superior impact and heat resistant polycarbonate resin for superior durability
- Both NPN and PNP compatible for the DC24V type; NPN compatible with the AC 100/220V type only.
- Available Colors are in Red, Amber, Green, Blue, and Clear/White.
- Has the CE mark and conforms to the requirements for the EC directive. (for 24V type)

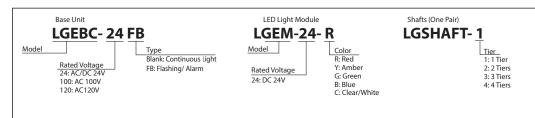
Interchangeable LED Modules



How to Order (Pre-assembled)



How to Order (Module)



Red Amber Green Blue Clear/White

Specifications (Pre-assembled)

(No Alarm)

| | | (1407114111) | | | |
|-----------------|---------|---------------|----------------------|--------|--|
| Light System | Model | Rated Voltage | Power Consumption | Mass | |
| | LGE-102 | AC/DC 24V | 2.0W | 0.4kg | |
| 1 Tier | LGE-110 | AC 100V | 5.2W | 1 Oka | |
| | LGE-120 | AC 220V | 3.200 | 1.0kg | |
| | LGE-202 | AC/DC 24V | 4.0W | 0.6kg | |
| 2 Tiers | LGE-210 | AC 100V | 7.7W | 1.2kg | |
| | LGE-220 | AC 220V | 7.7 VV | | |
| | LGE-302 | AC/DC 24V | 6.0W | 0.8kg | |
| 3 Tiers | LGE-310 | AC 100V | 10.2W | 1 /1/0 | |
| | LGE-320 | AC 220V | 10.200 | 1.4kg | |
| | LGE-402 | AC/DC 24V | 8.0W | 0.9kg | |
| 4 Tiers | LGE-410 | AC 100V | 12.7W | 1 Elea | |
| | LGE-420 | AC 220V | 12.700 | 1.5kg | |

Alarm Type (Intermittent Rate: ab. 60 beeps per min)

| Light System | Model | Rated Voltage | Power Consumption | Mass | |
|-----------------|-----------|---------------------|----------------------|--------|--|
| | LGE-102FB | AC/DC 24V | 2.5W | 0.4kg | |
| 1 Tier | LGE-112FB | AC 100V | 5.7W | 1 01/0 | |
| | LGE-120FB | AC 220V | 3.7 VV | 1.0kg | |
| | LGE-202FB | AC/DC 24V | 4.5W | 0.6kg | |
| 2 Tiers | LGE-212FB | AC 100V | 8.2W | 1.2kg | |
| | LGE-220FB | AC 220V | 0.2 VV | i.∠kg | |
| | LGE-302FB | AC/DC 24V | 6.5W | 0.8kg | |
| 3 Tiers | LGE-312FB | AC 100V | 10.7W | 1.4kg | |
| | LGE-320FB | AC 220V | 10.7 VV | 1.4Kg | |
| | LGE-402FB | AC/DC 24V | 8.5W | 0.9kg | |
| 4 Tiers | LGE-412FB | AC 100V | 12 214/ | 1 Elva | |
| | LGE-420FB | 420FB AC 220V 13.2W | | 1.5kg | |

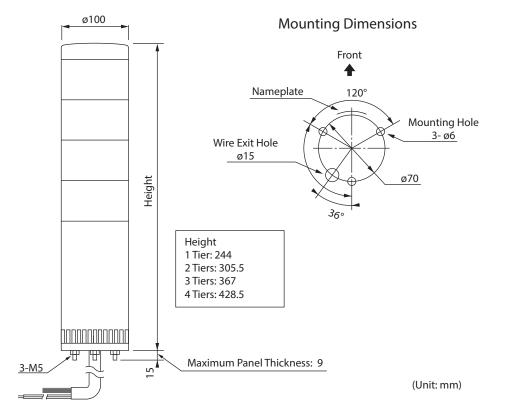
Specifications (Modules)

| Light Unit | Color | Rated Voltage | Power Consumption |
|------------|-------|------------------|----------------------|
| LGEM24-R | RED | | |
| LGEM24-Y | AMBER | - | |
| LGEM24-G | GREEN | | 2.0W |
| LGEM24-B | BLUE | | |
| LGEM24-C | CLEAR |] | |

| Power Unit | Rated Voltage | Operation |
|-------------|---------------|----------------|
| LGEBC-120 | AC 120V | Continuous |
| LGEBC-24 | AC/DC 24V | Continuous |
| LGEBC-120FB | AC 120V | Continuous/ |
| LGEBC-24FB | AC/DC 24V | Flashing/Alarm |

| Part No. | Light Units per |
|-----------|--------------------|
| | Base |
| LGSHAFT-1 | 1 |
| LGSHAFT-2 | 2 |
| LGSHAFT-3 | 3 |
| LGSHAFT-4 | 4 |

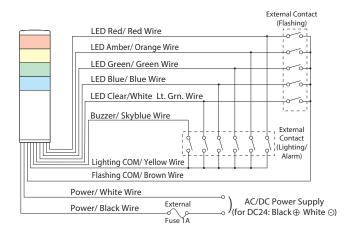
Dimensions





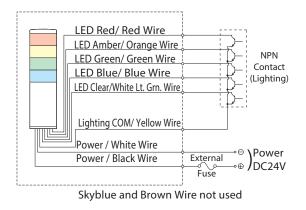


AC/DC 24V Lighting/Flashing Type

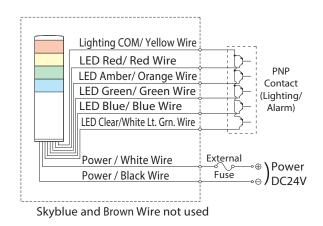


| Signal Line voltage and current per LED Module | | | | | |
|--|---------------|------------------------|---------------------------|------------------------|-------------------|
| | | | LED | Alarm | |
| Model | Rated Voltage | Signal Line Voltage | Signal Line Current | Signal Line Current | Inrush Current |
| LGE-A | AC/DC 24V | AC/DC 24V | | | |
| LGE-A | AC 100 | DC 24V | 90mA | 20mA | 250mA |
| ICE A | VC 220// | DC 24V | | | |

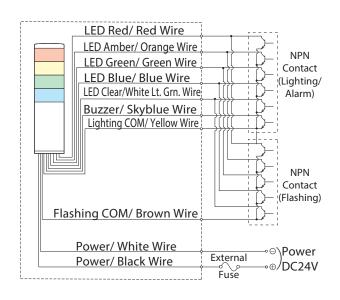
DC 24V NPN Type



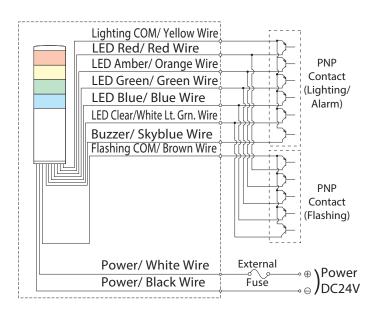
• DC 24V PNP Type



• DC 24V NPN FB Type



• DC 24V PNP FB Type



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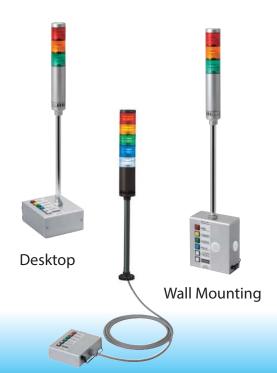
For more details, visit our website at http://www.patlite.com

WSST

Manual Control Box







Signal Towers, Cables and poles sold sepearately

PATLITE's WSST Control Box offers excellent all-inone functionality to meet the growing needs of the manufacturing sector and beyond.

APPLICATIONS

- · Workstations and work cells
- Real-time line status indication for managers and line supervisors
- · Lean manufacturing, safety and security applications
- Manual assembly operations
- Retail check-out stations
- · Call centers

FEATURES

- Universal manual control box for PATLITE LED Signal Towers.
- Sturdy metal construction with 6 color-coordinated push buttons.
- Recommended Signal Towers to choose from are ME; MES; LCE; LES; LME-L; and SZ-60L & SZ-50L Pole Kits
- Install up to 5 Tiers (Red, Amber, Green, Blue and Clear/White).
- Add optional sound alarm or flash functionality (must purchase FB type Signal Towers).
- Various mounting methods include Wall or Desktop installations or as Remote. Recommended Signal Towers for Remote applications (10 ft. cable included) are the LCE-U (with "L" bracket) or LME-U (with flange-mount bracket) Signal Towers.
- Power Supply is included (WSST-KIT).

How to Order

WSST-KIT

Package Description

KIT: Complete Kit includes

- Control Box
- Cable Gland
- 16mm Plug (1pc)
- 22mm Plug (2 pcs)
- Instruction Manual
- Power Supply

CB: Complete Kit (excluding Power Supply)

PS: Power Supply Only

Specifications

| Rated | Operating | Operating Teperature | Mounting | Mass |
|-----------------------|----------------|----------------------------------|-------------|------------------------|
| Voltage | Voltage | Range | Location | (±10%) |
| DC 24V (Non-polar) | DC 21.6 -26.4V | 0°C- +40°C (RH less than 90%) | Indoor Only | 1.11kg (Switch Box) |







The HSST includes a 3-tiered LED Signal Tower kit as a low- cost complete turn-key solution for manual assembly factories where lean manufacturing practices are dependent upon the overall operation efficiency.

APPLICATIONS

- · Assembly workstations
- · Safety and security applications
- Call centers
- · Retail check stands
- Hospitals
- Airports

FEATURES

- Complete kit includes a 50mm diameter red, amber, green 3-tier LED Signal Tower with 4-foot Cable, poles, three-button control box, AC power adaptor and mounting brackets that can fit onto standard cubicle partitions.
- AC power adapter (UL Listed) rated at 120VAC with 6 ft. cable length is included to allow easy set-up in any location.
- LED light illumination offers maintenance-free operation.
- Optional Extention Cable (Part No. DT-HSST-10) available in 10 ft. segments.
- · Mounting screws included with the three-button control box.
- Choice of 3 in. (80mm) or 12 in. (300mm) pole included in set.

How to Order

HSST-312

Package Description

312: Complete Kit including

- 3 button Control Box
- Control Box mounting screws
- 3 tiered Signal Tower (Red, Amber, Green)
- AC 120V Power Adaptor
- 4 ft. cable for Signal Tower
- 3 " Pole (80mm)
- 12" Pole (300mm)
- Pole Mounting Brackets
- Instruction Manual

Specifications

| Model | Rated Voltage | Tiers | Power Supply |
|----------|---------------|--------------------|-------------------------------------|
| HSST-312 | DC 24V | 3 Tiers (R,Y,G) | AC120V / DC24V (Center Negative) |

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For more details, visit our website at http://www.patlite.com

Signal Lights



NE-24

LED Dome Signal Light





LED



IP65

Φ57

NPN/PNP **Open-collector**

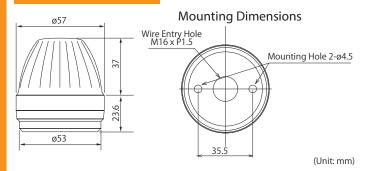


NE Series LED Dome Indicator Light; The dome-shaped globe provides increased visibility while the LEDs provide years of maintenance-free operation.

FEATURES

- Enhanced Illumination with the use of long-life, super bright LEDs.
- Low power consumption increases energy efficiency.
- · High vibration-resistance and unnecessary bulb replacement makes it maintenance-free.
- · Uses a terminal block for easy wiring.
- Applications are suitable for small tooling machines, control panels, etc.
- · Available colors are in Red, Amber, Green, Blue, and Clear/White.
- Has the CE mark and conforms to the requirements for the EC directive.

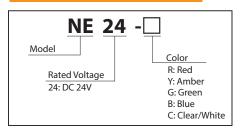
Dimensions



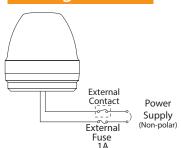
Specifications

| Model | Color | Rated Voltage | Power Consumption | Operating Temperature Range | Mass |
|---------|-------------|------------------|----------------------|-----------------------------------|------|
| NE-24-R | RED | | 0.63111 | | |
| NE-24-Y | AMBER | | 0.63W | | |
| NE-24-G | GREEN | DC 24V | 0.56W | -30 C - +50 C | 55g |
| NE-24-B | BLUE | | 0.53W | | |
| NE-24-C | CLEAR/WHITE | | 0.45W | | |

How to Order



Wirina







LED Multi-signal Light







KHE features three flashing patterns for diverse applications.

FEATURES

Optional Rubber

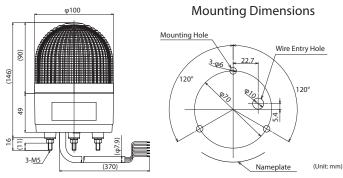
Gasket SZ-200A

- Super-bright long life LED's used for three signaling patterns that simulate rotation, strobe, and blinking.
- Enhanced Illumination with the use of long-life, super bright LEDs.
- No motor or bulb replacement makes it Maintenance-free.
- Low power consumption increases energy efficiency.
- Indoor installation can be upright, inverted or sideways; Outdoors is for upright only.
- Available colors are in Red, Amber, Green, and Blue.
- Has the CE mark and conforms to the requirements for the EC directive.
- Is UL Listed (File No. E215660).

AVAILABLE BY SPECIAL ORDER

· Body Color: Silver

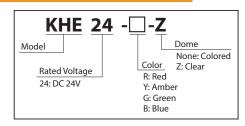
Dimensions



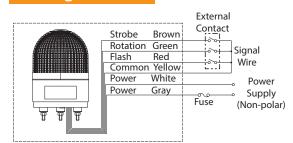
Specifications

| Model | Color | Rated | Power | | Mass | | | |
|--------|-------------------|--------|---------------|---------|----------|-------------------------------|--------|--|
| Model | dei Color Voltage | | Consumption | Flash | Rotation | Strobe | IVIdSS | |
| | RED | | 0.214 | | | | | |
| KHE-24 | AMBER | DC 24V | 8.2W 10.1W | 55 ±10% | 175 ±10% | 75 ±10% fps (double-flash) | 450g | |
| KHE-24 | GREEN | DC 24V | | fps | fps | | | |
| | BLUE | | 21.6W | | | | | |

How to Order



Wiring











Alarm Sound (PEW-B)

85dB at 1m (PEW-B)

Open-collector





- * PEW-A: IP54 (IP23 with side-wire exit mounting)
- PES-A: IP55 with the optional rubber gasket SZ-210 (IP23 without SZ-210).

Dome shape LED Signal Light featuring enhanced visibility and maintenance-free operation.

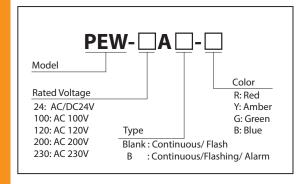
- · Has maintenance-free LED's that consume nearly half the power incandescent bulb models (AC100V/200V) do.
- Newly-developed triple-reflection system for enhanced visibility and low power consumption.
- PEW-B type has a built-in adjustable audible alarm with a volume of up to 85dB (at 1m).
- Indoor installation can be upright, inverted or sideways; Outdoors is for upright only.
- The PES is rated for IP55 with the optional rubber gasket SZ-210 (IP23 without SZ-210).
- Has the CE mark and conforms to the requirements for the EC directive. (for 24V type)
- Is a UL Recognized Component (File No. E215660, for 24V, 120V, 230V types only).
- · Dome is made of superior weather resistant and light translucent acrylic resin.
- Three flashing patterns of 60/120/180 fpm, switch selectable.
- The PEW is rated for IP54 (IP23 with side-wire exit mounting)
- Available colors are in Red, Amber, Green, and Blue.

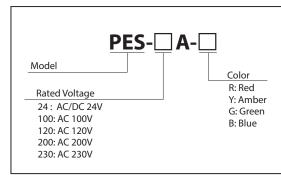
AVAILABLE BY SPECIAL ORDER

- **Body Color: Silver**
- · IP65: PEW type only



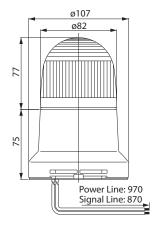


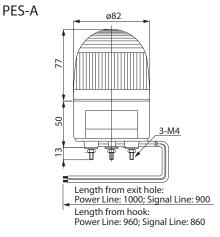


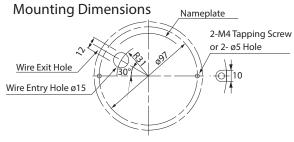


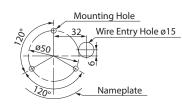
Dimensions



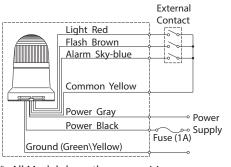


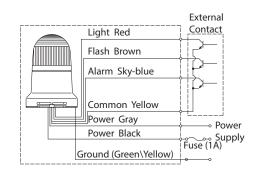






Wiring





- * All Models have the same wiring
- * Sky-blue signal wire is for buzzer type only
- * Ground wire is added for high-voltage types only

Specifications

| Model | Color | Rated Voltage | Power Consumption | Inrush Current | Mass |
|-------------|-------|------------------|----------------------|-------------------|--------|
| DEM 244 | R/Y | | 1.2W | | 320g |
| PEW-24A | G/B | 16/0624/ | 1.5W | 254 | |
| PEW-24AB | R/Y | AC/DC 24V | 2.2W | 2.5A | 340g |
| FEW-24AB | G/B | | 2.5W | | 3409 |
| PEW-100A | R/Y | | 2.8W | | F20= |
| PEW-100A | G/B | AC 100V | 3.3W | | 520g |
| DEW 100 A D | R/Y | AC 100V | 5.3W | 1.0A | 540g |
| PEW-100AB | G/B | | 5.8W | | |
| PEW-120A | R/Y | | 3.0W | | 520g |
| | G/B | AC 120V | 3.5W | | 520g |
| PEW-120AB | R/Y | AC 120V | 5.7W | | 540g |
| PEW-12UAD | G/B | | 6.2W | | |
| PEW-200A | R/Y | | 2.5W | | F20- |
| PEW-200A | G/B | AC 200V | 3.2W | 0.5A | 520g |
| PEW-200AB | R/Y | AC 200V | 4.9W | | E 40 a |
| PEW-200AD | G/B | | 5.6W | | 540g |
| PEW-230A | R/Y | | 3.1W | | F20~ |
| PEW-23UA | G/B | AC 230V | 3.8W | | 520g |
| DEW 220AB | R/Y | AC 230V | 5.9W | | 540a |
| PEW-230AB | G/B | | 6.4W | | 540g |

| Model | Color | Rated Voltage | Power Consumption | Inrush Current | Mass |
|-----------|-------|------------------|----------------------|-------------------|------|
| PES-24A | R/Y | AC/DC 24V | 1.2W | 2.5A | 240~ |
| PES-24A | G/B | AC/DC 24V | 1.5W | 2.5A | 240g |
| PES-100A | R/Y | AC 100V | 4.2W | | 430g |
| PE3-100A | G/B | AC 100V | 4.7W | 1.0A | |
| PES-120A | R/Y | AC 120V | 4.4W | | |
| | G/B | AC 120V | 4.9W | | |
| PES-200A | R/Y | AC 200V | 4.0W | | |
| PE3-200A | G/B | AC 200V | 4.7W | 0.5A | |
| PES-230A | R/Y | AC 230V | 4.6W | U.3A | |
| F L3-230A | G/B | AC 230V | 5.3W | | |

KPE-A

Flashing/Rotating Light





Revolving Warning Light featuring maintenance-free LED's, Corrosion-proof plastic and adjustable flashing cycles.

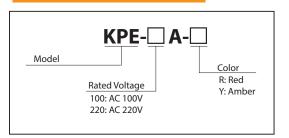
FEATURES

- · Enhanced design with special high-intensity illumination to improve light diffusion and ensure sufficient brightness, even outdoors.
- Internally adjustable flashing cycle between 50 and 200 times per minute.
- Extended long-life with LEDs so no bulb replacement is needed, perfect for "hard-to-service" locations.
- Indoor installation can be upright, inverted or sideways; Outdoors is for upright only.
- With an electronic rotating light system, no worn-out motors to replace.
- Main body is made of special weather-resistant resin.
- Dome is made from superior weather-resistant and light translucent acrylic resin.
- Stainless mounting bolts with corrosion-proof screws.
- Available Colors are Red and Amber.

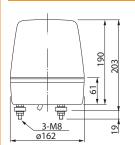
Specifications

| | Model | Rated Voltage | Power Consumption | Flash Rate | Mass |
|----|---------|---------------|-------------------|--------------|-------|
| KI | PE-100A | AC 100V | Continuous: 4W | 50 - 200 rpm | 1.5kg |
| KI | PE-220A | AC 220V | Flashing: 9W | 60 fpm | 1.5кд |

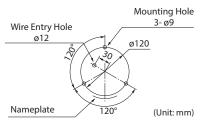
How to Order



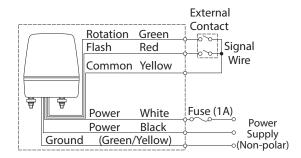
Dimensions



Mounting Dimensions



Wiring



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For more details, visit our website at http://www.patlite.com

Revolving Warning Light





Super-bright LED Revolving Warning Light





90dB at 1m (SKHEB)

IP23

Ø118



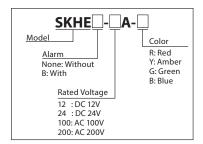


Compact LED revolving warning light featuring one super-bright LED chip and an enhanced high dispersion reflection system.

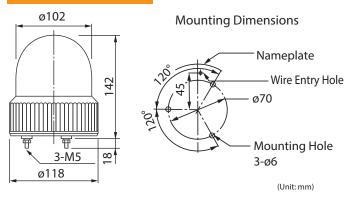
FEATURES

- SKHEB series includes an internal alarm (hi-pitched tone) of 90dB (at 1m) that is synchronized with the light operation.
- · Indoors allows upright, inverted, and horizontal installation; outdoors allows upright installation only.
- Has the CE mark and conforms to the requirements (for 12V, 24V type only) for the EC directive.
- Compact motor with high durability and energy-efficient characteristics.
- · Energy-efficient by using only 1 LED chip which is super-bright.
- · Dome lens is made of impact and heat resistant polycarbonate resin.
- · Colors available are Red, Amber, Green, and Blue.

How to Order



Dimensions



Specifications

| Model | Rated Current Voltage Consumption | | Flash Rate (fpm) | Mass | |
|----------------|--------------------------------------|-------|---------------------|------|--|
| SKHE/SKHEB-12 | DC 12V | 0.25A | | 400- | |
| SKHE/SKHEB-24 | DC 24V | 0.16A | 120 | 400g | |
| SKHE/SKHEB-100 | AC 100V | 0.04A | 120 | C00= | |
| SKHE/SKHEB-200 | AC 200V | 0.02A | | 600g | |

Newly developed reflector for LED revolving warning light



The PATLITE LED revolving warning light uses a unique and patented reflecting system, solely designed for these models. Even though the dispersion characteristics of the LED chip is less than an incandescent bulb, PATLITE's unique design creates an equivalent dispersion effect with the light reflector.



The uniquely designed reflectors not only reflect upward and to the side, but also downward; this cannot be achieved by incandescent bulb type revolving warning lights. The PATLITE LED revolving warning light is suitable for applications where high visibility from a low angle is required.





Revolving Warning Light







LED Signal Light featuring energy-saving and enhanced illumination with an LED integrated reflection system.

FEATURES

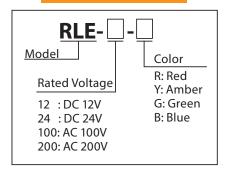
- · Indoors allows upright, inverted, and horizontal installation; outdoors allows upright installation only.
- Dome lens is made of superior impact and heat resistant polycarbonate resin.
- · Compact motor with high durability and energy-efficient characteristics.
- LED integrated reflection system for enhanced illumination.
- · Energy-efficient and maintenance-free LED array
- Main body is made of impact and heat resistant ABS resin.
- · Colors available are Red, Amber, and Green.

Specifications

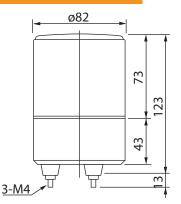
| Model | Rated Voltage | Power Consumption | Flash Rate (fpm) | Mass |
|----------|------------------|-------------------|---------------------|------|
| O RLE-12 | DC 12V | 1.7W | | 400- |
| RLE-24 | DC 24V | 3.9W | 120 | 400g |
| RLE-100 | AC 100V | 2W | 120 | 600~ |
| RLE-220 | AC 220V | ZVV | | 600g |

Available by Special Order

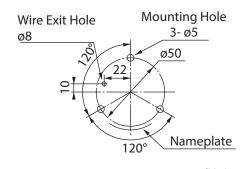
How to Order



Dimensions



Mounting Dimensions



RKE/RKEB/RHE/RHEB



Super-bright LED Revolving Warning Light



Compact LED revolving warning light featuring one super-bright LED chip and an enhanced high dispersion reflection system.

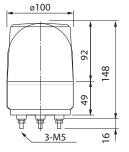
FEATURES

- RHEB/RKEB includes an internal alarm (hi-pitched tone) of 90dB (at 1m) that is synchronized with the light operation.
- Has the CE mark and conforms to the requirements (for 12V, 24V type only) for the EC directive.
- Compact motor with high durability and energy-efficient characteristics.
- Dome lens is made of impact and heat resistant polycarbonate resin.
- Energy-efficient by using only 1 LED chip which is super-bright.
- Main body is made of impact and heat resistant ABS resin.
- · Colors available are Red, Amber, Green, and Blue.
- · Uses a terminal block for easy wiring.

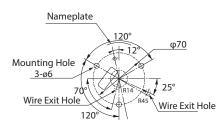
Specifications

| Model | Model Rated Currer Voltage Consump | | Flash Rate | Mass |
|--------------|---------------------------------------|-------|---------------|------|
| RKE/RKEB-12 | DC 12V | 0.25A | | 400= |
| RKE/RKEB-24 | DC 24V | 0.16A | | 400g |
| RKE/RKEB-100 | AC 100V | 0.04A | | 6000 |
| RKE/RKEB-200 | AC 200V | 0.02A | 120 frame | 600g |
| RHE/RHEB-12 | DC 12V | 0.25A | 120 fpm | 400g |
| RHE/RHEB-24 | DC 24V | 0.16A | | 4009 |
| RHE/RHEB-100 | AC 100V | 0.04A | | 600g |
| RHE/RHEB-200 | AC 200V | 0.02A | | ooog |

Dimensions

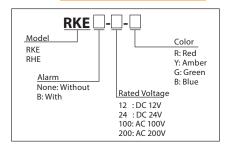






(Unit: mm)

How to Order



Newly developed reflector for LED revolving warning light



The PATLITE LED revolving warning light uses a unique and patented reflecting system, solely designed for these models. Even though the dispersion characteristics of the LED chip is less than an incandescent bulb, PATLITE's unique design creates an equivalent dispersion effect with the light reflector.



The uniquely designed reflectors not only reflect upward and to the side, but also downward; this cannot be achieved by incandescent bulb type revolving warning lights. The PATLITE LED revolving warning light is suitable for applications where high visibility from a low angle is required.

RKEM/RHEM

Super-bright LED Revolving Warning Light











P55 (with SZ-200A)

Ø100

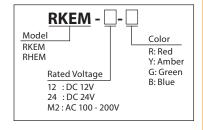
Brushless Motor

Compact LED revolving warning light featuring one superbright LED chip with an enhanced dispersion reflection system and brushless motor.

FEATURES

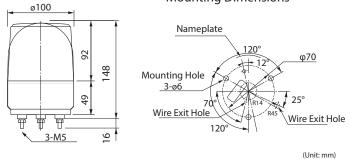
- · Has the CE mark and conforms to the requirements (for 12V, 24V type only) for the EC directive.
- Brushless compact motor with high durability and long-lasting characteristics.
- Dome lens is made of impact and heat resistant polycarbonate resin.
- Energy-efficient by using only 1 LED chip which is super-bright.
- Main body is made of impact and heat resistant ABS resin.
- Colors available are Red, Amber, Green, and Blue. • Uses a terminal block for easy wiring.

How to Order



Dimensions

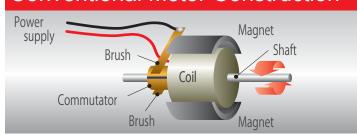
Mounting Dimensions



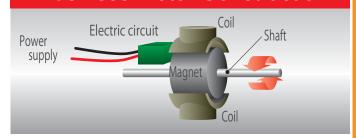
Specifications

| Model | Rated Voltage | Current Consumption | Flash Rate | Mass | |
|---------|------------------|------------------------|---------------|------|--|
| RKEM-12 | DC 12V | 0.20A | | | |
| RKEM-24 | DC 24V | 0.14A | | | |
| RKEM-M2 | AC 100-200V | 0.20A-0.06A | 120 6 | 400- | |
| RHEM-12 | DC 12V | 0.20A | 120 fpm | 400g | |
| RHEM-24 | DC 24V | 0.14A | | | |
| RHEM-M2 | AC 100-200V | 0.20A-0.06A | | | |

Conventional Motor Construction



Brushless Motor Construction





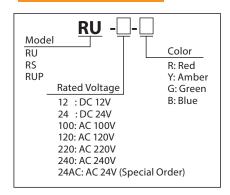
Compact Revolving Warning Light perfectly designed for small devices.

- Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Has the CE mark and conforms to the requirements (for 12V, 24V type only) for the EC directive.
- Dome is made from superior impact and heat resistant polycarbonate resin.
- Main body is made of impact and heat-resistant polycarbonate resin.
- Rotating parabolic reflector to enhance visibility from a distance.
- · Vibration-resistant automobile bulb for extended bulb life.
- · Available Colors are Red, Amber, Green, and Blue.

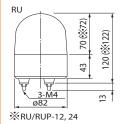
AVAILABLE BY SPECIAL ORDER

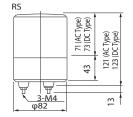
- · Body Color: Silver
- · Mounting Pole and Bracket: Standard with RUP Series.

How to Order

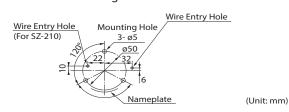


Dimensions





Mounting Dimensions



Specifications

| NAI - I | Rated | Current | Flash Rate | Bulb | | Mass | | |
|--------------|---------|-------------|------------|---------|-----------|--------|-------|--|
| Model | Voltage | Consumption | (fpm) | Ratings | Repl. No. | RU/RS | RUP | |
| RU/RS-12 | DC 12V | 0.5A | | 12V 6W | 18 | 0.4140 | 0.8kg | |
| RU/RS-24 | DC 24V | 0.3A | | 24V 6W | 19 | 0.4kg | u.okg | |
| RU/RS-100 | AC 100V | 0.14 | 0.1A | | | | | |
| RU/RS-120 | AC 120V | 0.14 | 120 | 12V 6W | 18 | 0.6kg | 1.0kg | |
| RU/RS-220 | AC 220V | 0.05A | | 120 000 | 10 | 0.0kg | 1.0kg | |
| RU/RS-240 | AC 240V | U.U3A | | | | | | |
| O RU/RS-24AC | AC 24V | 0.3A | | 24V 6W | 19 | 0.4kg | 0.8kg | |

Available by Special Order



RH-A/RK-A

Revolving Warning Light

 $\mathbf{A}^{\circ}(\mathbf{\epsilon}$



IP55 (with SZ-200A)

1 Alarm Sound (RHB & RKB)

90dB at 1m (RHB & RKB)



Φ100

Compact Revolving Warning Light featuring high durability and easy wiring with terminal block.

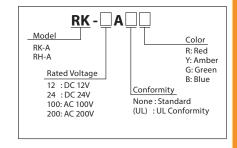
FEATURES

- Indoors allows upright, inverted, and sideways installation; Outdoors allows upright installation only.
- Has the CE mark and conforms to the requirements (for 12V, 24V type only) for the EC directive.
- Dome is made from superior impact and heat resistant polycarbonate resin.
- Main body is made of impact and heat-resistant polycarbonate resin.
- Built-in audible alarm for models RHB/RKB at a sound of 90dB (at 1m).
- Rotating parabolic reflector to enhance visibility from a distance.
- Is UL Listed for 24V, 120V, and 240V types (File No. E215660)
- Vibration-resistant automobile bulb for extended bulb life.
 Available Colors are Red, Amber, Green, and Blue.
- Utilizes a terminal block for easy wiring.

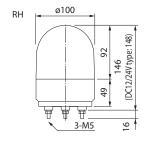
Gasket SZ-200A

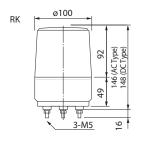
- AVAILABLE BY SPECIAL ORDER (RH TYPE)
- Body Color: Silver

How to Order

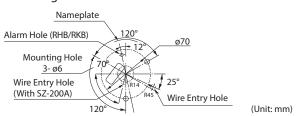


Dimensions





Mounting Dimensions



Specifications

| Model | Rated | Current | Flash Rate | Ви | ılb | 11000 |
|------------------|---------|-------------|------------|-----------|-----------|-------|
| iviodei | Voltage | Consumption | (fpm) | Ratings | Repl. No. | Mass |
| RH/RHB-12A | DC 12V | 0.8A | | 12V 10W | 9 | 400g |
| RH/RHB-24A (UL) | DC 24V | 0.5A | | 24V 10W | 10 | 4009 |
| RH/RHB-120A (UL) | AC 120V | 0.1A |] | 12V 5W 12 | | |
| RH/RHB-200A | AC 200V | 0.03A | | | 12 | 600g |
| RH/RHB-240A (UL) | AC 240V | 0.05A | 170 | | | |
| RK/RKB-24A (UL) | DC 24V | 0.5A | | 24V 10W | 10 | 400g |
| RK/RKB-120A (UL) | AC 120V | 0.1A | | | | |
| RK/RKB-200A | AC 200V | 0.03A | | 12V 5W | 12 | 600g |
| RK/RKB-240A (UL) | AC 240V | 0.05A | | | | |

SKH-A

Revolving Warning Light

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1 Alarm Sound (SKHB)

90dB at 1m (SKHB)

P56 (SKH-SA, others IP23)

Φ118







Corrosion-proof plastic Revolving Warning Light for a variety of applications.

Dullh

FEATURES

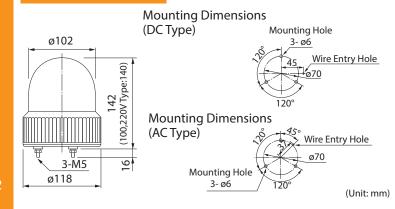
- Rotating parabolic reflector to enhance visibility from a distance.
- · Vibration-resistant automobile bulb for extended bulb life.
- Includes an internal alarm of 90dB (at 1m) that is synchronized with the light operation.
- Upright, inverted, and sideways installation allowed for indoors* as well as outdoors.
- Dome is made from superior weather-resistant and light-translucent acrylic resin.
- · Available Colors are Red, Amber, Green, and Blue.
- Has the CE mark and conforms to the requirements (for 12V, 24V type only) for the EC directive.

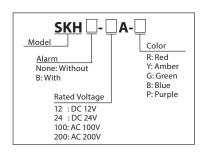
*SKH-SA installation allows upright and inverted installation only for indoor use.

Specifications

| - | Model | Rated | Current | Flash Rate | BL | di | Mass |
|---|--------------------|---------|-------------|------------|---------|-----------|--------|
| | Model | Voltage | Consumption | (fpm) | Ratings | Repl. No. | IVIASS |
| | SKH-101A/SKHB-12A | DC 12V | 0.8A | _ | 12V 10W | 9 | 400g |
| | SKH-102A/SKHB-24A | DC 24V | 0.5A | | 24V 10W | 10 | 4009 |
| | SKH-110A/SKHB-100A | AC 100V | 0.065A | 170 | 12V 5W | 12 | 600g |
| | SKH-112A/SKHB-120A | AC 120V | 0.07A | | | | |
| ſ | SKH-120A/SKHB-200A | AC 200V | 0.03A | | | | |
| | SKH-102SA | DC24V | 0.5A | | 24V 10W | 10 | 400kg |
| | SKH-110SA | AC 100V | 0.1A | | 12V 5W | 12 | 600g |

Dimensions









SKH-EA

Revolving Warning Light

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Bulb

IP23

Ø100

Best-selling Revolving Warning Light for wide range of applications.

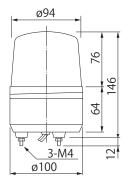
FEATURES

- · Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Has the CE mark and conforms to the requirements (for 12V, 24V type only) for the EC directive.
- Dome is made from superior weather-resistant and light-translucent acrylic resin.
- Rotating parabolic reflector to enhance visibility from a distance.
- · Vibration-resistant automobile bulb for extended bulb life.
- · Available Colors are Red, Amber, Green, and Blue.

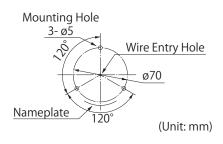
Specifications

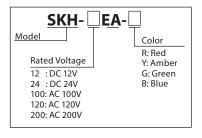
| Carias | Madal | Rated | Current | Flash Rate | Вι | ılb | Mass |
|---------------------|-----------|---------|-------------|------------|---------|-----------|--------|
| Series | Model | Voltage | Consumption | (fpm) | Ratings | Repl. No. | iviass |
| USA Version | SKH-12EA | DC 12V | 0.8A | | 12V 10W | 9 | 400g |
| | SKH-24EA | DC 24V | 0.5A | | 24V 10W | 10 | |
| | SKH-120EA | AC 120V | 0.07A | | 12V 5W | 12 | 600g |
| | SKH-12EA | DC 12V | 0.8A | 170 | 12V 10W | 9 | 4000 |
| Standard Version | SKH-24EA | DC 24V | 0.5A | | 24V 10W | 10 | 400g |
| | SKH-100EA | AC 120V | 0.065A | | 12V 5W | 12 | 600g |
| | SKH-200EA | AC 200V | 0.03A | | 120 300 | '2 | 0000 |

Dimensions



Mounting Dimensions





SKP-A

Revolving Warning Light

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Bulb

IP23

Ø138







A Revolving Warning Light featuring corrosion-resistance and a stable and silent rotation.

FEATURES

- · Main body is made of a melamine baked finish with a corrosion-proof stainless steel (SUS 304) lens mounting fixture.
- Has the CE mark and conforms to the requirements (for 12V, 24V, 48V DC types only) for the EC directive.
- · Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Dome lens is made of superior impact and heat resistant polycarbonate resin.
- Rotary Mechanism is gear-driven for stable rotation under vibration.
- · Available Colors are in Red, Amber, Green, and Blue.

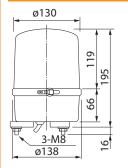
Specifications

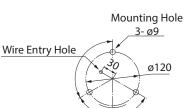
| 1 | Model | Rated | Current | | | lb | NA |
|---|------------|---------|-------------|-------|-----------|-----------|--------|
| | Model | Voltage | Consumption | (fpm) | Ratings | Repl. No. | Mass |
| | SKP-101A | DC 12V | 2.6A | | 12V 35W | 1 | 0.01.5 |
| ſ | SKP-102A | DC 24V | 1.2A | | 24V 35W | 2 | 0.8kg |
| | SKP-104A | DC 48V | 0.8A | 140 | 48V 35W | 5 | 0.9kg |
| | SKP-110ADC | DC 100V | 0.35A | | 120V 40W | 36 | 0.9kg |
| | SKP-110A | AC 100V | 0.3A | | 1200 4000 | | 1.01.0 |
| | SKP-120A | AC 200V | 0.13A | 120 | 220V 30W | 37 | 1.0kg |

Nameplate

Available by Special Order

Dimensions

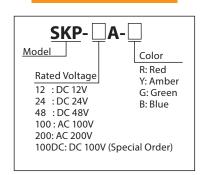




120°

Mounting Dimensions

(Unit: mm)





Revolving Warning Light **SKL-A**



Bulb

Φ162

Basic Large-sized Revolving Warning Light with highly durable housing.

FEATURES

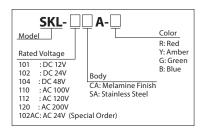
- · Main body for the SKL-CA has a scratch-free melamine baked finish, and the SKL-SA is of corrosion-proof stainless steel.
- Has the CE mark and conforms to the requirements (for 12V, 24V, 48V DC type only) for the EC directive.
- Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Dome is made of a superior impact and heat-resistant polycarbonate resin.
- · Available Colors are Red, Amber, Green, and Blue.

Specifications

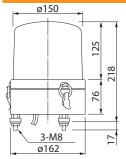
| Model | Rated Current | | Flash Rate | Bu | ılb | Mass |
|-----------------|---------------|-------------|------------|----------|-----------|--------|
| Model | Voltage | Consumption | (fpm) | Ratings | Repl. No. | IVIASS |
| SKL-101CA/101SA | 12V DC | 2.6A | | 12V 35W | 1 | 1.3kg |
| SKL-102CA/102SA | 24V DC | 1.2A | 140 | 24V 35W | 2 | |
| ○ SKL-102ACSA | 24V AC | 1.2A | | | | |
| SKL-104CA | 48V DC | 0.8A | 140 | 48V 35W | 5 | 1.4kg |
| SKL-110CA/110SA | 100V AC | 0.3A | | 120V 40W | 36 | 1.5kg |
| SKL-112SA | 120V AC | 0.4A | | | 30 | |
| SKL-120CA/120SA | 200V AC | 0.13A | 120 | 220V 30W | 37 | |

O Available by Special Order

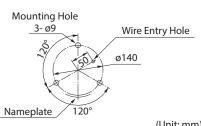
How to Order



Dimensions



Mounting Dimensions



SKC-A

Revolving Warning Light

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Bulb

P23

Φ187

Dual-face Reflector





Large Revolving Warning Light featuring a powerful dual-face reflector flash.

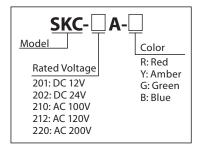
FEATURES

- Extended product lifespan by using vibration-resistance and reliable operation, even under a severely cold environment (-30°C).
- Main body is made of a melamine baked finish with a corrosion-proof stainless steel (SUS 304) lens mounting fixture.
- · Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Has the CE mark and conforms to the requirements (for 12V, 24V type only) for the EC directive.
- $\bullet \ \ \mathsf{Dome} \ \mathsf{lens} \ \mathsf{is} \ \mathsf{made} \ \mathsf{of} \ \mathsf{superior} \ \mathsf{weather} \mathsf{-resistant} \ \mathsf{and} \ \mathsf{light-translucent} \ \mathsf{acrylic} \ \mathsf{resin}.$
- The rotary mechanism is belt-driven for an extremely quiet and stable rotation.
- Compact motor with high durability and energy-efficient characteristics.
- · Available Colors are in Red, Amber, Green, and Blue.
- Dual-face reflector for a powerful rotary flash.

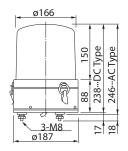
Specifications

| Model | Rated | Current Flash Rate Bulb | | Current Flash Rate Bulb | | ılb | Mass | |
|----------|---------|-------------------------|-------|-------------------------|-----------|--------|------|--|
| Model | Voltage | Consumption | (fpm) | Ratings | Repl. No. | iviass | | |
| SKC-201A | 12V DC | 2.6A | | 12V 35W | 1 | 1 (1.5 | | |
| SKC-202A | 24V DC | 1.2A | 200 | 24V 35W | 2 | 1.6kg | | |
| SKC-210A | 100V AC | 0.3A | 200 | 120V 40W | 36 | | | |
| SKC-212A | 120V AC | 0.4A | | 1200 4000 | 30 | 1.8kg | | |
| SKC-220A | 200V AC | 0.13A | 160 | 220V 30W | 37 | | | |

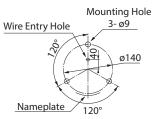
How to Order



Dimensions



Mounting Dimensions



SKV-A

Revolving Warning Light





Bulb IP66 Φ204

Corrosion-resistant Revolving Warning Light.

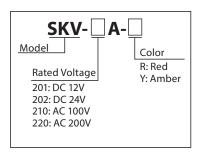
FEATURES

- Main body is made of corrosion-resistant aluminum alloy die-cast with a metal cable gland.
- Dome lens is made of superior impact and heat resistant polycarbonate resin.
- Operating Temperature Range is from -30°C to +80°C.
- Allows upright, inverted, and sideways installation.
- · Available Colors are in Red and Amber.

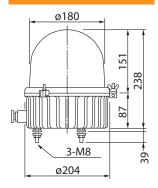
Specifications

| Model | | | Flash Rate | Bu | ılb | Mass |
|----------|---------|-------------|------------|----------|-----------|--------|
| Model | Voltage | Consumption | (fpm) | Ratings | Repl. No. | IVIASS |
| SKV-101A | 12V DC | 2.6A | | 12V 35W | 1 | 2 (1.5 |
| SKV-102A | 24V DC | 1.2A | 140 | 24V 35W | 2 | 2.6kg |
| SKV-110A | 100V AC | 0.3A | | 120V 40W | 36 | 2.8kg |
| SKV-120A | 200V AC | 0.13A | 120 | 220V 30W | 37 | 2.okg |

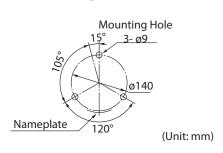
How to Order



Dimensions



Mounting Dimensions



SKHB-1006D Revolving Warning Light







1 Alarm Sound

Φ162

Portable





Portable Revolving Warning Light with dry cell batteries.

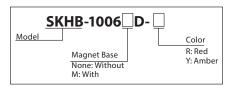
FEATURES

- · Built-in operation-selectable alarm with external switch for light rotation only, or with buzzer and light rotation (solenoid buzzer sound).
- Contains five (5) SUM-1 batteries for 4 hours of operation, or five (5) LR20 for about 15 hours.
- Dome is made of superior weather-resistant and light-translucent acrylic resin.
- The 1006MA type includes a powerful magnet for secure placement.
- · Installation is for the upright position only.
- · Available Colors are Red and Amber.

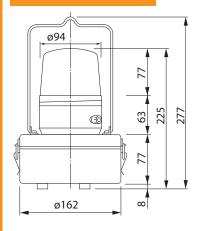
Specifications

| Model | Rated | Rated Power | | Bulb | | Mass |
|-------------|-----------|-------------|-------|---------|-----------|--------|
| Model | Voltage | Consumption | (fpm) | Ratings | Repl. No. | iviass |
| SKHB-1006D | DC6V | 3W | 170 | 6V 3W | 8 | 2.0kg |
| SKHB-1006MD | (SUM-1x5) | | | | | 2.1kg |

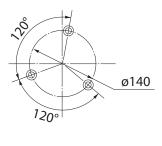
How to Order



Dimensions



Mounting Dimensions





KP-A

Revolving Warning Light









BulbIP23Φ162

Corrosion-proof plastic Revolving Warning Light for a wide range of applications.

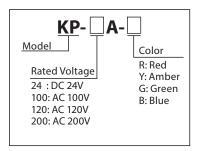
FEATURES

- Extended product lifespan by using vibration-resistance and reliable operation, even under a severely cold environment (-30°C).
- · Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- · Has the CE mark and conforms to the requirements (for 24V type only) for the EC directive.
- Dome lens is made of superior weather-resistant and light-translucent acrylic resin.
- Mounting Bolts are drip-proof and made of rust-free stainless steel.
- Rotating parabolic reflector to enhance visibility from a distance.
- Main Body is made of special UV and water-resistant resin.
- · Available Colors are Red, Amber, Green, and Blue.

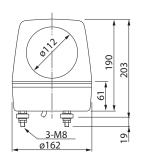
Specifications

| Model | Rated | Current Flash Rat | | Bu | ılb | Mass |
|---------|---------|-------------------|-------|----------|-----------|--------|
| Model | Voltage | Consumption | (fpm) | Ratings | Repl. No. | IVIASS |
| KP-24A | 24V DC | 1.2A | | 24V 35W | 2 | 1.0kg |
| KP-100A | 100V AC | 0.3A | 140 | 120V 40W | 6 | |
| KP-120A | 120V AC | 0.4A | | | | 1.2kg |
| KP-200A | 200V AC | 0.13A | 120 | 220V 30W | 37 | |

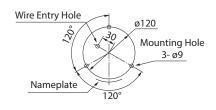
How to Order



Dimensions



Mounting Dimensions



WH-A/WK-A

Revolving Warning Light

(E





Alarm Sound (WHB-A Only)

90dB at 1m (WHB-A Only)

IP54

Φ100



Easily attachable to an electrical box with easy wiring to a terminal block.



Install in various directions when using for indoor applications.

Sideways



Upside-down

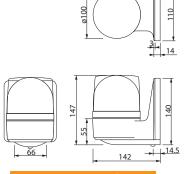


When installing the WHB, direct the buzzer in a downward direction

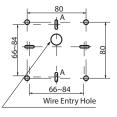
Wall-mount Revolving Warning Light featuring easy wiring with terminal block.

- Has the CE mark and conforms to the requirements (12V, 24V type only) for the EC directive.
- Upright, inverted, and sideways installation allowed for indoors as well as outdoors*.
- Dome is made from superior weather-resistant and light-translucent acrylic resin.
- Rotating parabolic reflector to enhance visibility from a distance.
- Compact motor with high durability and energy-efficient characteristics.
- Vibration-resistant automobile bulb for extended bulb life.
- Main body is made of impact and heat resistant ABS resin.
- Available Colors are Red, Amber, Green, and Blue.
- Uses a terminal block for easy wiring.
 - *WHB installation is upright only for outdoor use.

Dimensions



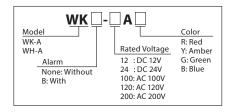
Mounting Dimensions





(Unit: mm)

How to Order



Specifications

| Model | Rated | Current | Flash Rate | Bu | ılb | Mass |
|----------|---------------|-------------|------------|-----------|-----------|--------|
| Model | Voltage | Consumption | (fpm) | Ratings | Repl. No. | IVIASS |
| WK-12A | DC 12V | 0.8A | | 12V 10W | 9 | |
| WH-24A | DC 24V | 0.5A | | 24V 10W | 10 | 550g |
| WK-24A | DC 24V | 0.54 | | 240 1000 | 10 | |
| WH-100A | AC 100V | 0.07A | | | 12 | |
| WK-100A | AC 100V | 0.07A | | | | |
| WH-120A | AC 120V | 0.08A | | 12V 5W | | 750g |
| WK-120A | AC 120V | 0.007 | | 124 344 | | |
| WH-200A | AC 200V 0.04A | | | | . | |
| WK-200A | | 0.04A | 170 | | | |
| WKB-12A | DC 12V | 0.85A | 170 | 12V 10W | 9 | |
| WHB-24A | DC 24V | 0.5A | | 24V 10W | 10 | 550g |
| WKB-24A | DC 24V | 0.5A | | 240 1000 | 10 | |
| WHB-100A | AC 100V | | | | | |
| WKB-100A | AC 100V | 0.07A | | | | |
| WHB-120A | AC 120V | 0.07A | | 12)/ 5)// | 10 | 750 |
| WKB-120A | AC 120V | | | 12V 5W | 12 | 750g |
| WHB-200A | AC 2001/ | 46 2001/ | | | | |
| WKB-200A | AC 200V | 0.04A | | | | |





Revolving Warning Light

Large Revolving Warning Light with a solid design.

FEATURES

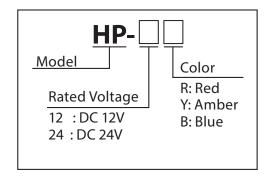
- Dome is made from superior weather-resistant and light-translucent acrylic resin.
- Main body is made of impact and heat resistant ABS resin.
- Available Voltages are DC 12V and DC 24V.
- Available Colors are Red, Amber, and Blue.
- Utilizes a Halogen Bulb (Sold Separately).

Specifications

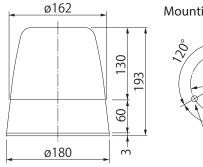
| | Madal | Rated | Halogen Bulb | logen Bulb Flash Rate | | |
|-------------------|-------|-----------|----------------------|-----------------------|-------|--|
| Model | | Voltage | Bulb sold seperately | (fpm) | Mass | |
| 0 | HP-12 | 12V/24 DC | 0.54 | 160 | 1.01. | |
| ○ HP-24 12V/24 DC | | 12V/24 DC | 0.5A | 160 | 1.0kg | |

Available by Special Order

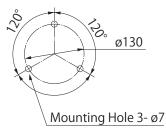
How to Order



Dimensions



Mounting Dimensions



KG

Revolving Warning Light

Bulb

A

IP23

Φ186

Dual-face Reflector





Large lightweight Revolving Warning Light with dual-face reflector.

FEATURES

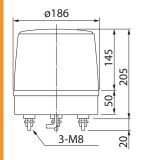
- · Indoors allows upright, inverted, and sideways installation; outdoors allows upright installation only.
- Main Body is made of a black resin for resistance against harsh weather and UV rays.
- Compact motor with high durability and energy-efficient characteristics.
- The red dome is made of AS resin; the amber dome is made of PS resin.
- Dual-face reflector for a powerful rotary flash.
- · Available Colors are in Red and Amber.

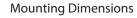
*Please contact your local PATLITE representative for other available voltages.

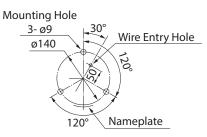
Specifications

| Model | Rated | Current | rent Flash Rate Bulb | | Mass | | |
|--------|---------------------|---------|----------------------|----------|-----------|--------|--|
| Model | Voltage Consumption | | (fpm) | Ratings | Repl. No. | IVIASS | |
| KG-12 | DC 12V | 2.7A | | 12V 35W | 1 | 700- | |
| KG-24 | DC 24V | 1.2A | 180 | 24V 35W | 2 | 700g | |
| KG-100 | AC 100V | 0.32A | | 120V 40W | 36 | 900g | |

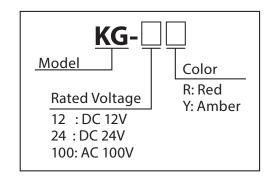
Dimensions







(Unit: mm)





Compact revolving warning light with cigar lighter plug to attach onto your car for road service.

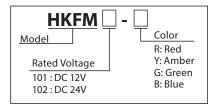
FEATURES

- · Large-sized rotating parabolic reflector to enhance visibility from a distance.
- Cigar lighter plug with a 4m cable for easy power connection.
- · Available Colors are in Red, Amber, Green, and Blue.
- Rim-drive motor for a quiet and stable rotation.
- · Dome lens is made of polycarbonate resin.

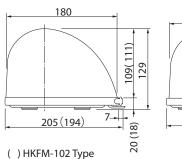
Specifications

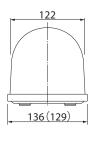
| Model | Rated Voltage | Current Consumption | Flash Rate (fpm) | Bulb | Mass |
|----------|------------------|------------------------|---------------------|---------|------|
| HKFM-101 | DC 12V | 2.9A | 230 | 12V 35W | 800a |
| HKFM-102 | DC 24V | 1.9A | 230 | 24V 55W | auug |

How to Order



Dimensions







Cord length 4 m (with cigar lighter plug)



Ideal for forklift, material handling equipment and a great variety of applications.

FEATURES

- Has the CE mark and conforms to the requirements (for 12V, 24V, 48V type) for the EC directive.
- · Colors available are Red, Amber, Green, and Blue.
- RLR complies with the RoHS Directive.

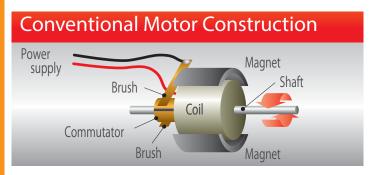
LED + Brushless Motor + Bearing Mechanism

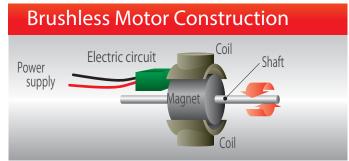


Long Life

The RLR has many advantages in comparison to a rotating beacon using incandescent bulbs and the conventional motor. The LED will last approximately 20 to 40 times longer than an incandescent bulb, and in combination with a brushless motor with bearings, allows the RLR

to operate from 8,000 hrs to 10,000 hrs, compared to 5,000 hrs for other rotating beacons.











High Visibility



High Protection

IP66 TEST PROCEDURE

IPX6= Water is sprayed for at least 3 minutes at a flow rate of 100 L/min from a distance between 2.5m to 3.0m, and from all 360°directions using a 12.5mm diameter jet hose nozzle.

IP6X= The target unit is tested under-pressure in a dust chamber for 8 hours.

How to Order

Model Code

Rated Voltage 04 : DC 48V M1 : DC 12-24V M2 : AC 90~250V

RLR-04-P-R

Color

R:Red G:Green Y:Amber B:Blue **Mounting Dimensions** Blank: φ140

P:φ120

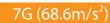
Typical Vibration Values



Passenger Car



Construction Machinery



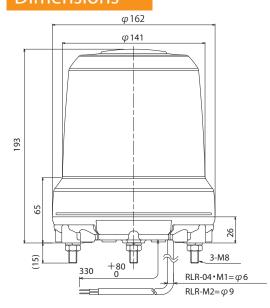


Emergency Vehicle

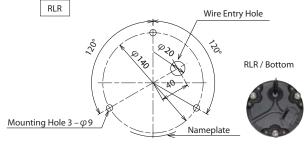
11G (107.8m/s²)

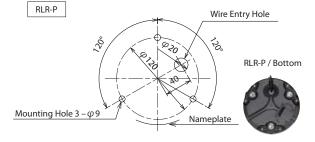
Dump Trucks

Dimensions



Mounting Dimensions





(Unit: mm)

| Model | Rated Voltage | Operating Voltage Range | Vibration Resistance | Operating Temperature Range | Dome | Mass |
|--------|---------------|----------------------------|---------------------------|--------------------------------|--------------------------|--------|
| RLR-M1 | DC 12-24V | DC 9.5V - 15V | 110m/s ² | -30 C - +70 C | -R (Red) | 1.0kg |
| RLR-04 | DC 48V | DC 20V - 30V | (11G) | -30 C - +/0 C | -Y (Amber) -G (Green) | 1.0kg |
| RLR-M2 | AC 90-250V | AC 90V - 250V | 45m/s ² (4.5G) | -10 C - +50 C | -B (Blue) | 1.06kg |



LED



Bulb



1 Alarm Sound

80_{db at 1m}

IP54 (Except KUS-B)

70







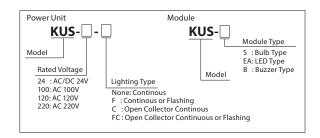


The KUS Series cube tower; uses advanced technology with a modular design to combine two different lights on one unit.

FEATURES

- Light modules can be stacked up to 4 tiers in any color combination.
- RoHS Compliance for Models KUS-24, KUS24F, KUS-EA-R/Y/G/B/C.
- Lenses are made of heat and shock resistant polycarbonate resin.
- Each light has a built-in dip switch to control the light on or off.
- Maximum power consumption of the base unit is 21 watts.
- Light and Base units are sold separately.
- IP rating of IP54 (Except the KUS-B)
- KUS-F flashes 60 times a minute.

How to Order



| Power Unit | Model | Model Rated Voltage | | (Image) |
|------------------------------|-------------|---------------------|------|---------|
| | KUS -24 | AC/DC 24V | | |
| Continuous | KUS -100 | AC 100V | | |
| Lighting | KUS -120 | AC 120V | | |
| | KUS -220 | AC 220V | | |
| | KUS -24 F | AC/DC 24V | | |
| Continuous | KUS -100 F | AC 100V | | |
| Lighting or Flashing | KUS -120 F | AC 120V | | 1000 |
| | KUS -220 F | AC 220V | 21W | |
| | KUS -24 C | AC/DC 24V | 2100 | |
| Open-Collector Continuous | KUS -100 C | AC 100V | | |
| Lighting | KUS -120 C | AC 120V | | |
| | KUS -220 C | AC 220V | | |
| Onen Collector | KUS -24 FC | AC/DC 24V | | |
| Open-Collector Continuous | KUS -100 FC | AC 100V | | |
| Lighting or Flashing | KUS -120 FC | AC 120V | | |
| i lastillig | KUS -220 FC | AC 220V | | |

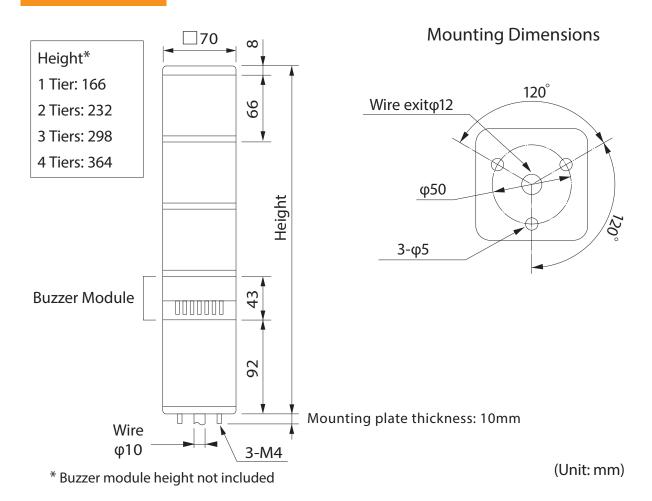
| Model | Rated | Power Consumption | Bu | lb |
|--------------|---------|------------------------|---------|-----------|
| Model | Voltage | Power Consumption | Ratings | Repl. No. |
| KUS-S (Bulb) | DC 24V | 6W | | 19 |
| KUS-EA (LED) | DC 24V | R,Y: 1.2W; G,B,C: 0.9W | _ | _ |





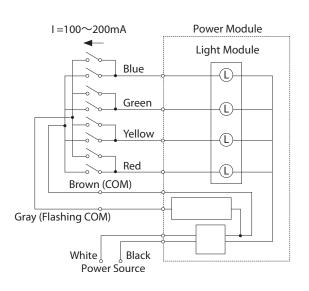
| Model | Rated Voltage | Power Consumption | Volume |
|-------|------------------|-------------------|--------------|
| KUS-B | DC 24V | 0.5W | 80dB (at 1m) |



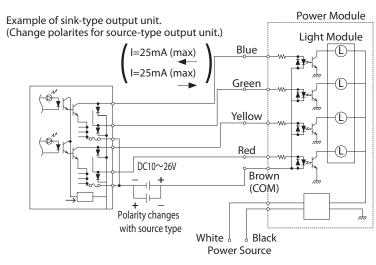


Wiring

Contact Input Type (KUS,KUS-F)

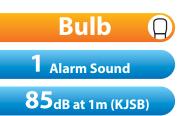


Open-collector Type (NPN/PNP for KUS-FC,C)



KJS / KJSB Cube Tower





IP23

82

NPN/PNP **Open-collector**

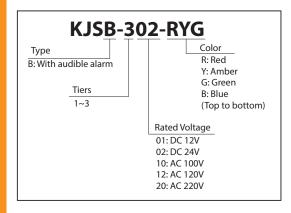


Lightweight Cube Tower featuring a built-in buzzer designed to fit applications for small equipment.

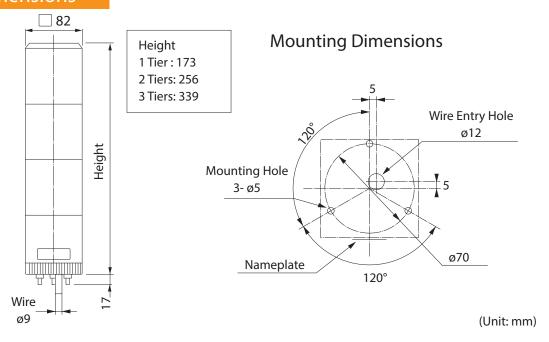
FEATURES

- Built-in Alarm with intermittent buzzer sound and volume of up to 85dB (at 1m).
- Lens is made of superior weather-resistant and light-translucent AS resin.
- Rotating parabolic reflector to enhance visibility from a distance.
- Main body is made of impact and heat resistant ABS resin.
- · Available colors are Red, Amber, Green, and Blue.
- · Installation is in the upright position only.
- Flashing cycle of 160 times/min.
- One spare bulb is included.

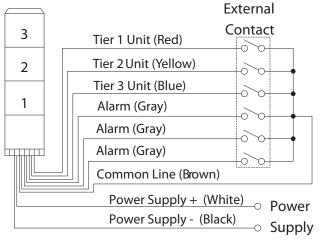
How to Order



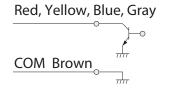
Dimensions



Wiring



NPN Open-collector Transistor



| Current Consumption and Contact Capacity per Module | | | | | | | | | |
|---|----------------------|-----------------------|-------------------------------|-------------------------------|--|--|--|--|--|
| Rated Voltage | Lamp Wire Current | Alarm Wire Current | Lamp Wire Contact Capacity | Alarm Wire Contact Current | | | | | |
| DC 12V | | | | | | | | | |
| DC 24V | | | | | | | | | |
| AC 100V | 34mA | 100mA | 50mA or more | 300mA or more | | | | | |
| AC 120V | | | | | | | | | |
| AC 200V | | | | | | | | | |

- Θ DC Inputs are polarized.
- Only the KJSB has Gray wires for alarm input.

| Stack | | Mode | .I | Rated | Power | Flash Rate | Ві | ılb |
|---------|-----|------|--------------|---------|-------------|------------|---------|-----------|
| Number | | Mode | :1 | Voltage | Consumption | (fpm) | Ratings | Repl. No. |
| | | | -101 | DC 12V | 6W | | 12V 5W | 12 |
| | | | -102 | DC 24V | 12W | _ | 24V 10W | 10 |
| 1 Tier | KJS | KJSB | -110 | AC 100V | | | | |
| | | | -112 | AC 120V | 8W | | 12V 5W | 12 |
| | | | -120 AC 200V | | | | | |
| | | | -201 | DC 12V | 11W | 160 | 12V 5W | 12 |
| | | KJSB | -202 | DC 24V | 24W | | 24V 5W | 10 |
| 2 Tiers | KJS | | -210 | AC 100V | 16W | | | |
| | | | -212 | AC 120V | | | 12V 5W | 12 |
| | | | -220 | AC 200V | | | | |
| | | | -301 | DC 12V | 16W | | 12V 10W | 9 |
| | | | -302 | DC 24V | 35W | | 24V 10W | 10 |
| 3 Tiers | KJS | KJSB | -310 | AC 100V | 23W | | | |
| | | | -312 | AC 120V | | | 12V 5W | 12 |
| | | | -320 | AC 200V | | | | |

KJ/KJB Cube Tower





1 Alarm Sound

85_{dB at 1m (KJB)}

IP23

□116



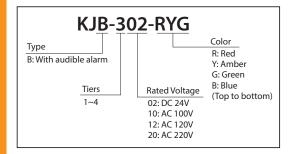


Lightweight Cube Tower featuring a built-in buzzer suitable for various indoor applications.

FEATURES

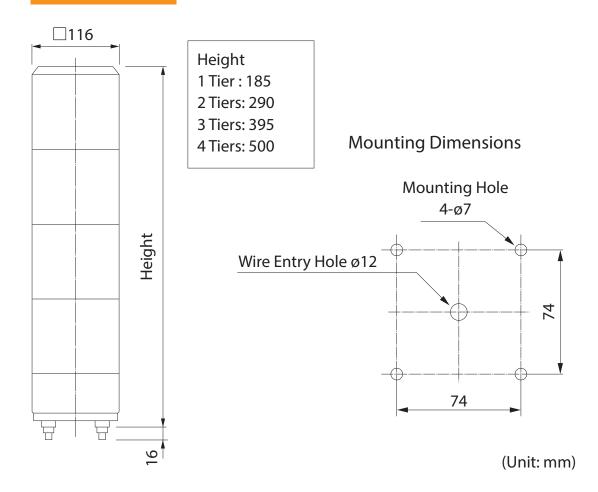
- Built-in Alarm with intermittent buzzer sound and volume of up to 85dB (at 1m).
- Lens is made of superior weather-resistant and light-translucent AS resin.
- Rotating parabolic reflector to enhance visibility from a distance.
- Main body is made of impact and heat resistant ABS resin.
- · Available colors are Red, Amber, Green, and Blue.
- · Installation is in the upright position only.
- Flashing cycle of 130 times/min.
- · One spare bulb is included.

How to Order



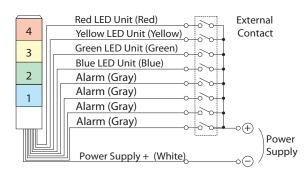
| Stack | | Model Rated Power Flash Rate | | Bu | ılb | | | |
|---------|------------------|------------------------------|------|-----------------------|--------|-------|---------|-----------|
| Number | | MOGE | 21 | Voltage Consumption | | (fpm) | Ratings | Repl. No. |
| | | | -102 | DC 24V | 13.5W | | 24V 10W | 10 |
| 1 Tier | KJ | KJB | -110 | AC 100V | 6W | | | |
| i nei | K | מנא | -112 | AC 120V | 7W | | 12V 5W | 12 |
| | -120 AC 200V 5.5 | 5.5W | | | | | | |
| | | | -202 | DC 24V | 25.54W | | 24V 5W | 10 |
| 2 Tiers | KJ | KJB | -210 | AC 100V | 11W | | | |
| 2 Hers | עא | | -212 | AC 120V | 13W | | 12V 5W | 12 |
| | | | -220 | AC 200V | 9.9W | 130 | | |
| | | KJB | -302 | DC 24V | 37.5W | 130 | 24V 10W | 10 |
| 3 Tiers | KJ | | -310 | AC 100V | 16W | | | |
| 3 Hers | L/J | L VJD | -312 | AC 120V | 18W | | 12V 5W | 12 |
| | | | -320 | AC 200V | 14.3W | | | |
| | | | -402 | DC 24V | 49.5W | | 24V 10W | 10 |
| 4 Tiers | KJ | N ID | -410 | AC 100V | 21W | | | |
| 4 Hers | 1 | J KJB | -412 | AC 120V | 26W | | 12V 5W | 12 |
| | | | -420 | AC 200V | 18.7W | | | |

Dimensions

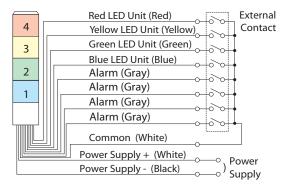


Wiring Diagram

KJ/KJB (24V DC)



KJ/KJB (100V AC, 220V AC)



- Θ KJ-110/112/120 are voltage-contact type, therefore have no alarm signal wires.
- Θ Only the KJB has Gray wires for alarm input.

| Current Consumption and Contact Capacity per Module | | | | | | | | | | |
|---|-------|------|-------------|------|-------|--|--|--|--|--|
| Rated Voltage Signal Wire Inrush External Contact Alarm Wire Alarm Wire Current Current Capacity Current Inrush Current | | | | | | | | | | |
| 24V DC | 0.42A | 4.6A | 5 A or more | 60mA | 500mA | | | | | |
| 100VAC/120VAC/220VAC 0.42A 4.6A 5A or more 60mA 500m | | | | | | | | | | |

| MEMO |
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For more details, visit our website at http://www.patlite.com



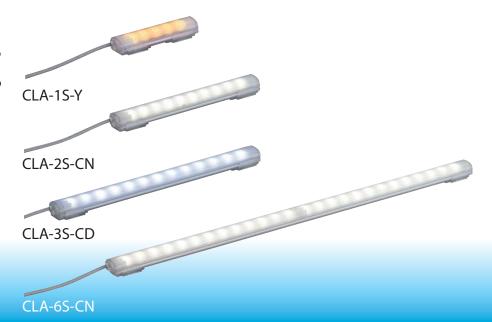








IP66G/67G/69K



More than a diffusion LED light bar, it can be used in places like the food-processing industry with its protection rating of "IP69K", which can endure high-pressurized hot water washing.

- · Bright, long lasting LED's.
- Suitable for food, beverage and pharmaceutical applications where high-pressure, 80°C high-temperature wash-downs are required. Also meets IP66/67 standards.
- The radiating temperature is reduced to 40 degrees or less (34% reduction in comparison to a 20W fluorescent light), increasing
 environmental efficiency.
- Seven lengths in the range from 100 to 1500mm to choose from, with three colors (Daylight, Natural White, Amber), and four types of attachments, including a magnet one, offering a potential for various applications.
- The operating temperature range from -40°C to +60°C allows installation in sub-freezing temperatures, such as walk-in freezers.
- It is constructed with strong polycarbonate resin, which is resistant to shock.
- · Corresponds to Europe's RoHS Directive.
- Obtained certification for ECOLAB.
- · Conforms to CE requirements.
- UL Listed (File No. E306141).

Lumionous Color

With a high-intensity Illumination, it is suitable for applications such as lighting-up processing machinery workspace or video inspection systems to help highlight more details, etc.



A 6800K daylight light bar at a distance of 50 cm from the center of irradiation has measured a maximum brightness of 400lx.

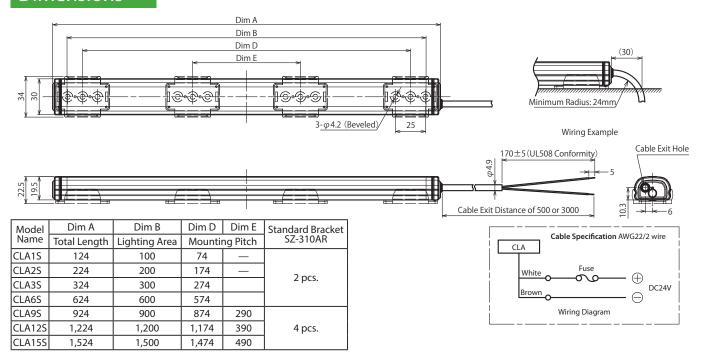
CLA-CN (Natural White: 4800K)

How to Order





Dimensions







Rear Attachment (Screw Mount) Model SZ-310AR



Rear Attachment (Magnetic Mount) Model SZ-310ARM



Side Attachment (Screw Mount) Model SZ-310AS



Side Attachment (CLB-24N Compatible) Model SZ-310ASB

| Me | odel Luminous Rated Vibration Operating Color Voltage Resistance Temperature Range | | Rated Current Consumption | Center Radiation (lx/50cm) | Main Body Material | Protection Rating | Mass | | | |
|--------|--|---------------|------------------------------|-------------------------------|-----------------------|----------------------|------|-----------------------|-------------|------|
| CLA1S | -24 -CD | Daylight | | | | | 140 | | | |
| CLA1S | -24 -CN | Natural White | | | | 104mA | 140 | | | 80g |
| CLA1S | -24 -Y | Amber | | | | | 78 | | - | |
| CLA2S | -24 -CD | Daylight | | | | 208mA | 270 | | | 130g |
| CLA2S | -24 -CN | Natural White | | | | 200111A | 270 | | | 1309 |
| CLA3S | -24 -CD | Daylight | | | | | 400 | | | |
| CLA3S | -24 -CN | Natural White | | | | 240mA | 400 | | | 180g |
| CLA3S | -24 -Y | Amber | DC 24V | 19.6 m/s ² | -40°C - +60°C | PC 220 | 220 | Polycarbonate IP66/ | ID66/67/60V | |
| CLA6S | -24 -CD | Daylight | (Polarized) | 19.0111/5 | (RH 90% or less) | | 650 | | 1100/07/091 | 340g |
| CLA6S | -24 -CN | Natural White | | | | 460IIIA | 050 | | | 3409 |
| CLA9S | -24 -CD | Daylight |] | | | 720mA | 810 | Polycarbonate IP66/67 | | E00~ |
| CLA9S | -24 -CN | Natural White | | | | /2011A | 810 | | | 500g |
| CLA12S | -24 -CD | Daylight | | | | 960mA | 890 | | | 660g |
| CLA12S | -24 -CN | Natural White | | | | 900IIIA | 690 | | | ooog |
| CLA15S | -24 -CD | Daylight | | | | 1,200mA | 945 | | | 820g |
| CLA15S | -24 -CN | Natural White | | | | 1,200IIIA | 943 | | | 6209 |







M-12 Daisylink



(Cable not included)

Water, Oil and Chemical Resistant LED Light Bar with an Illuminance of 2,100lx. (Measurement based on CLK6S-24AG-CD)

FEATURE

- Attained the IP69K standard for the meat/food processing, beverages and medicine manufacturing industries which demands the waterproofing performance. It also corresponds to IP66G/67G standards.
- Special design to reduce "Blinding Light" effect, reducing the risk of retinal damage (EN62471-2 for Photobiological Safety of Lamps and Lamp Systems).
- The product lineup includes three sizes (200mm, 300mm, 600mm), two colors (Daylight, Natural White), and different series (Side-exit Cable; M12 Quick-disconnect; Aluminum Alloy and Stainless Steel Body) for various applications.
- The operating temperature range from -40°C to +60°C allows installation in sub-freezing temperatures, such as walk-in freezers.
- · Slim Profile
- · Corresponds to Europe's RoHS Directive.
- · Conforms to CE requirements.
- UL Listed (File No. E306141).

Specifications

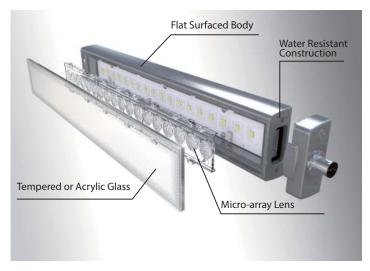
| Specif | fications/Material | Water and Oil Resistance/Aluminum Alloy | | | | | | | Water and Chemical Resistance/ SUS316 Stainless Steel | | |
|---------------|---------------------------|---|--------------------------------|---------|----------------------|----------------|----------------------|----------------|--|----------------------|--|
| Lens Mate | erial | Tempered Glass | | | | | | | Specially-tre | eated Lens◊ | |
| Model | | 2S-AG | 3S-AG | 6S-AG | 3C-AG | 3CL-AG | 6C-AG | 6CL-AG | 3C-SG | 3C-SA | |
| Lens Size | | 200mm | 300mm | 600mm | 300mm | 1 | 600mm | 1 | 300 | mm | |
| LED | Daylight: 6,500K: CD | | • | • | • | • | • | • | • | _ | |
| Color | Natural White: 5,000K: CN | Δ | • | Δ | • | • | • | _ | _ | • | |
| Center III | umination (@1m) | 820lx | 1,200lx | 2,100lx | 1,200lx | | 2,100lx | | 1,200lx | | |
| Connection | on Type | Side-ex | iting Cable, | L=0.5m | M12 Quick Disconnect | M12 Daisy Link | M12 Quick Disconnect | M12 Daisy Link | M12 Quick | M12 Quick Disconnect | |
| Power Co | nsumption | 8.4W | 12.5W | 25W | 12.5W | 1 | 25W | | 12. | 5W | |
| Rated Voltage | | | | | | DC | 12V (Poloarized) | | | | |
| Operating | Temperature Range | | -40°C - +60°C (RH 90% or less) | | | | | | | | |
| Protection | n Rating | IP 66G/67G (IEC 60529)/IP69K (DIN 40050 Part 9) | | | | | | | | | |

^{△:} Inquire before Ordering

How to Order

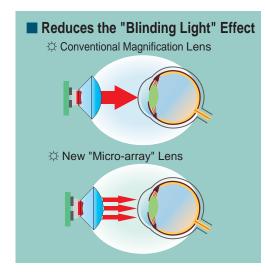
| | LED Color CD: Daylight, CN: Natural White Body Material AG: Aluminum & Glass SG: Stainless Steel & Glass SA: Stainless Steel & Special Lens |
|--|---|
|--|---|

^{0:} Specially-treated lens has three layers embedded; PMMA, Shatter-proof Film, Tempered Glass



Angled Body and Flat Surface

The side body angle was designed to prevent dirt accumulation, and for water and oil to roll off the surface. The LED lens retains a simple flat-surface for lighting and to help when wiping it down.



Reduces the "Blinding Light" Effect

This design conforms to the Photobiological Safety of Lamps and Lamp Systems (Compliance :EN62471- 2) in the Exempt Risk Group, which determines that no immediate retina damage is done



One-touch Installation

Just sliding the body onto the bracket makes attachment easy; and it locks in place with a locking screw (which is hidden from the front). (Aluminum Body Only)



Angle Adjustment Bracket

The Worklight can be freely adjusted up to 60° up and down from the center. (With a scale at 10° step marks and screws to lock it into place.)



Surface-mounting Bracket

A space-saving flush-mount bracket. (Limited board thickness and lead wire specification of 6mm or less; M12 connector specification of 3mm or less) (Models 3 S-AG/3 C-AG Only)







SZ-320KS







M12 Quick Disconnect

4-wire M12 Socket Cable, 5m (No. 1536308) 4-wire M12 SUS Socket Cable, 5m (No. 1552447)



Manufacturer: Phoenix Contact Corp

Daisy Link at a maximum of 5 Units



Product Lineup

| Houd | ct Emcup | | | |
|---------------|-------------------------------|---------------------------------|---|---|
| Specification | Side-exiting Cable Series (S) | M12 Quick Disconnect Series (C) | M12 Quick Disconnect Daisy Link Series (CL) | Stainless Steel (SUS) Body Series (C-SG/C-SA) |
| 200 mm | 25 600X 500X | | | |
| 300 mm | 35 600X | 3C 600X 900X | SOON *Up to 4 units | SUS & Special Lens SUS & Special Lens |
| 600 mm | 65 800X | 6C 650X 500X | 6CL SOOK *Only 1 Unit | |

| EMO | | |
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| For more detail | | |

For more details, visit our website at http://www.patlite.com

Alarm Products





BM

Signal Horn



90dB at 1m (BM-H Type)

2 Channels

IP34 (BM-D Front Only)

Ø30

NPN/PNP **Open-collector**





Compact Signal Horn designed to integrate with control panel, switchboard and other production equipment applications.

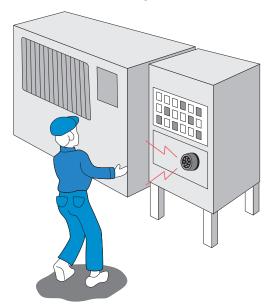
FEATURES

- Built-in Alarm with an audible sound of up to 90dB (at 1m*1).
- · Has two selectable alarm sound patterns.
- Three Types to choose from; Standard (BM), High Volume (BM-H), Drip-proof (BM-D)
- · Body is compact and lightweight (100g).
- The 24V type is compatible with NPN and PNP inputs.
- Has the CE mark and conforms to the requirements for the EC directive. (For AC/DC 24V only.)
- *1 Model BM-H: 90dB (at 1m); Model BM: 85dB (at 1m); Model BM-D: 80dB (at 1m)

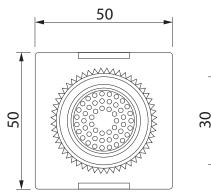
How to Order

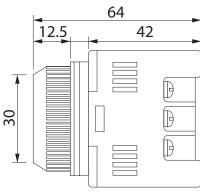
BM-202 H Model **Body Type** Blank: Standard Rated Voltage H: High Volume 202: AC/DC 24V D: Drip-proof 210: AC 100V 220: AC 220V

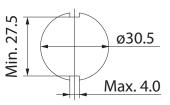
Application Example



Dimensions





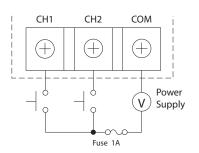


Maximum Panel Thickness: 7

(Unit: mm)

Wiring

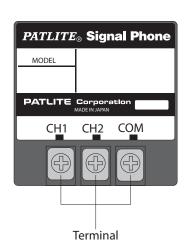
Terminal Bus Input



• Channel Priority

CH1 > Ch2 CH1 has priority when CH2 and CH1 are activated simultaneously

Rear View



External Contact Capacity: No less than 100mA

Auxiliary Input: Voltage Contact

Input Channels: 2

| Туре | Model | Rated Voltage | Voltage Range | Power Consumption | Max. Volume (at 1m) | Operating Temperature Range | Protection Rating | Mass |
|---------------|----------|------------------|---------------|----------------------|------------------------|-----------------------------------|----------------------|------|
| | BM -202 | AC/DC 24V | AC/DC 22V-26V | 0.4W | 80dB | | | |
| Standard | BM -210 | AC 100V | AC 90V-110V | 2.5W | OL 4D | | _ | 100g |
| | BM -220 | AC 220V | AC 200V-240V | 40V 3.5W 85dB | 8508 | | | |
| | BM -202H | AC/DC 24V | AC/DC 22V-26V | 0.4W | 85dB | -10°C - +60°C (RH 85% or less) | | |
| Liimb Valumaa | BM -210H | AC 100V | AC 90V-110V | 2.514 | | | | |
| High Volume | BM -212H | AC 120V | AC 108V-132V | 2.5W | 90dB | | | |
| | BM -220H | AC 220V | AC 200V-240V | 3.5W | | | | |
| | BM -202D | AC/DC 24V | AC/DC 22V-26V | 0.4W | 75dB | | | |
| Drip-proof | BM -210D | AC 100V | AC 90V-110V | 2.5W | 0040 | 7 | IP34 | |
| | BM -220D | AC 220V | AC 200V-240V | 3.5W | 80dB | | | |







The BD Series can play melodies, chimes and alarms with variable audible control and a compact, but loud speaker.

FEATURES

- Maximum output level of 90dB (at 1m) is suitable for use in a noisy factory.
- 32 pre-recorded sounds in one unit to be used for various applications.
- Sound output level and sound group can be selected by rotary switches stored behind the front panel for easier operation, even after installation.
- Select a sound group to playback 4 pre-recorded sounds.
- A new sound group can be created from the 32 sounds by using an optional memory card (sold separately).
- Compliant with the RoHS directive

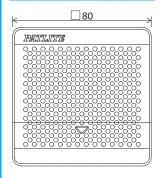
Open-collector

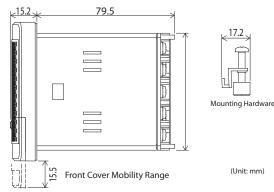
- Has the CE mark and conforms to the requirements (for 12V/24V type) for the EC directive.
- Is a UL recognized component (File No. E24210).

AVAILABLE BY SPECIAL ORDER

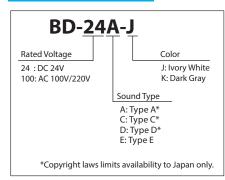
- · Binary input controlled 15 sound playback model.
- PNP open collector transistor type.

Dimensions

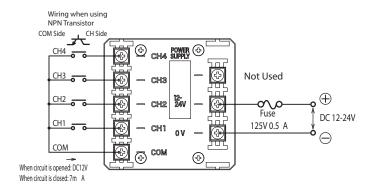


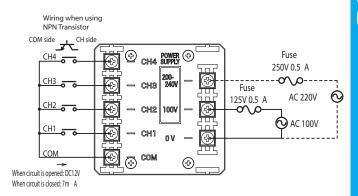


How to Order









Melody List

| Туре А | | | (Japan Only) |
|-------------------------------|------------------------------|--------------------------|-----------------------|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Stutter + Bell | Synthesized Melody Chime | Chime | Call Sign |
| Fur Elise | Maiden's Prayer | Bach Minuet in Gmaj | Annie Laurie |
| London Bridge is falling down | Hol-di-ri-Dia | Mary had a little Lamb | Camptown Races |
| Cuckoo Song | Village Blacksmith | On the Bridge of Avignon | Daydream Believer |
| Amaryllis | Mozart Symphony No. 40 | Quiet Lakeside | Ich bin ein Musikante |
| Spanish Romance | Katyusha | Grandfather's Clock | Ave Maria |

| Гуре D | | | (Japan Only) |
|-----------------------------------|--------------------------------|--------------------------------|------------------------|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Runner | Mamotte Agetai | Chime | Call Sign |
| Iribiao Kikinagara | September | Doyoubino Koibito | Akino Kehai |
| Saafu Tengoku Sukii Tengoku | Iro White-blend | Happy Birthday | Hi Ho |
| I've been working on the Railroad | The Bear Song | Toys Go "Cha-cha-cha" | Konnako Irukana |
| Schubert's Lullaby | Rudolph the red-nosed Reindeer | She Wore a Yellow Ribbon | My Darling, Clementine |
| Yellow Rose of Texas | Yankee Doodle | When the Saints Go Marching In | Londonderry Air |

| Туре С | | | (Japan Only) |
|-------------------------------|------------------------------|-------------------------|------------------------------------|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Stutter + Bell | Synthesized Melody Chime | Chime | Call Sign |
| Can't take my eyes off of you | Top of the World | The Entertainer | Amazing Grace |
| Amairono Kamino Otome | Les Champs-Elysees | Canon | Rara Sunshine |
| Uchuusenkan Yamamoto | Oshiete | Makenaide | Gonna Fly Now (Theme from "Rocky") |
| I don't Wanna Miss a Thing | Yozorano Mukou | Aiwa Katsu | Haruyo Koi |
| Gattsudaze | Odoru Ponpokorin | Imasugu Kisu Mi | Truth |

| Type E | (Worldwide) | | |
|------------------------------|------------------|---------------------|-------------------------------|
| Beep (slow intermittent) | Stutter + Bell | Inverted Reveille | Annie Laurie |
| Stutter (rapid intermittent) | Melody Chime | Galactic Motor | London Bridge is falling down |
| Bell (clear high-pitch) | Chime | Ringing Phone | Mary had a little Lamb |
| Yelp (rapid siren) | Call Sign | Two Tone | Camptown Races |
| Rapid Hi-Lo | Train Ride | Alarm Clock | Amaryllis |
| Melody Chime | Galloping Hi-Lo | Ringing Hi-Lo | Mozart Symphony No. 40 |
| Synthesized Piano | Alien Chatter | Fur Elise | Ave Maria |
| Synthesized Bell | Falling Crystals | Bach Minuet in Gmaj | Grandfather's Clock |

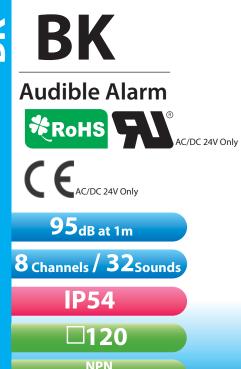
Specifications

| Model | BD-24 | BD-100 ☐ | |
|-----------------------------|--|------------------------------------|--|
| Rated Voltage | DC 12V - 24V | AC 100V/AC 220V (50/60Hz) | |
| Operating Voltage Range | DC 10.8V- 26.4V | AC 100V ±10%/AC 200V ±10% | |
| Operating Temperature Range | -20°C - | +50°C | |
| Relative Humidity | 85% RH (No C | Condensation) | |
| Power Consumption | Maximum 4W | Maximum 6W | |
| Volume | Adjustable up to a maximum of 90dB (at 1m) when flushmounted. (Volume may be less, depending on surrounding environment and playback sound | | |
| Input Method | Bit Input | | |
| Input Signal Duration | Conti | nuous | |
| Boot-up Time | Input Voltage: 1 sec. or less Chai | nnel Signal Input: 170msec or less | |
| Channels | 4 Cha | nnels | |
| Recorded Sound | 32 Melodies and | d Alarm Sounds | |
| Sound Group | 16 Patterns (A to P) | | |
| Protection Rating | IP54 (When flush-mounted, Upright direction Only) | | |
| Vibration Resistance | 19.6m/s ² | | |
| Mass | 205 g ±10% | 325 g ±10% | |

Use of Copyrighted Material

PATLITE Corporation has not applied for permission to use certain copyrighted music or songs recorded for Type-A, Type-C, and Type-D melody charts outside of Japan. Therefore, please contact the local copyright association for permission before using the product in case this product is used outside of Japan. Melody charts Type-E is recommended for use outside of Japan as this playlist does not include copyrighted music or songs, and permission is not required.







The BK Series can play melodies, chimes and alarms with variable audible control and a compact but loud speaker.

(Unit: mm)

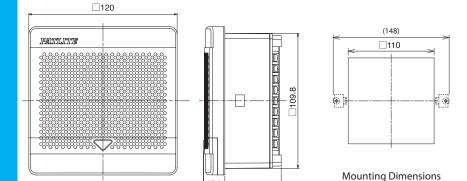
FEATURES

- 32 pre-recorded sounds in one unit to be used for various applications.
- Maximum output level of 90dB (at 1m) is suitable for use in a noisy factory.
- Rotary switch to easily change sound groups and adjust volume output from the front panel, even after installation.
- Use bit input to select a sound group to playback 8 pre-recorded sounds.
- A new sound group can be created from the 32 sounds by using an optional memory card (sold separately).
- Compliant with the RoHS directive

Open-collector

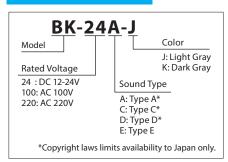
- Has the CE mark and conforms to the requirements (for 12V/24V type) for the EC directive.
- Is a UL recognized component (File No. E24210).
 - AVAILABLE BY SPECIAL ORDER
- · PNP open collector transistor type.

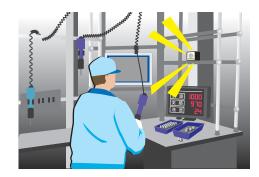
Dimensions

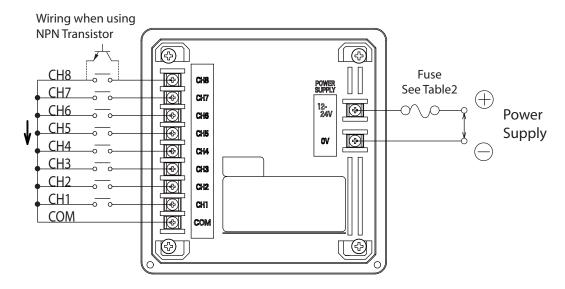


17.2

How to Order







Melody List

| Туре А | | | (Japan Only) |
|-------------------------------|------------------------------|--------------------------|-----------------------|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Stutter + Bell | Synthesized Melody Chime | Chime | Call Sign |
| Fur Elise | Maiden's Prayer | Bach Minuet in Gmaj | Annie Laurie |
| London Bridge is falling down | Hol-di-ri-Dia | Mary had a little Lamb | Camptown Races |
| Cuckoo Song | Village Blacksmith | On the Bridge of Avignon | Daydream Believer |
| Amaryllis | Mozart Symphony No. 40 | Quiet Lakeside | Ich bin ein Musikante |
| Spanish Romance | Katyusha | Grandfather's Clock | Ave Maria |

| Type D | | | (Japan Only) |
|-----------------------------------|--------------------------------|--------------------------------|------------------------|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Runner | Mamotte Agetai | Chime | Call Sign |
| Iribiao Kikinagara | September | Doyoubino Koibito | Akino Kehai |
| Saafu Tengoku Sukii Tengoku | Iro White-blend | Happy Birthday | Hi Ho |
| I've been working on the Railroad | The Bear Song | Toys Go "Cha-cha-cha" | Konnako Irukana |
| Schubert's Lullaby | Rudolph the red-nosed Reindeer | She Wore a Yellow Ribbon | My Darling, Clementine |
| Yellow Rose of Texas | Yankee Doodle | When the Saints Go Marching In | Londonderry Air |

| Туре С | | | (Japan Only) |
|-------------------------------|------------------------------|-------------------------|------------------------------------|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Stutter + Bell | Synthesized Melody Chime | Chime | Call Sign |
| Can't take my eyes off of you | Top of the World | The Entertainer | Amazing Grace |
| Amairono Kamino Otome | Les Champs-Elysees | Canon | Rara Sunshine |
| Uchuusenkan Yamamoto | Oshiete | Makenaide | Gonna Fly Now (Theme from "Rocky") |
| I don't Wanna Miss a Thing | Yozorano Mukou | Aiwa Katsu | Haruyo Koi |
| Gattsudaze | Odoru Ponpokorin | Imasugu Kisu Mi | Truth |

| Туре Е | | | (Worldwide) | |
|-------------------------------|---|---------------------|-------------------------------|--|
| Beep (slow intermittent) | Stutter + Bell | Inverted Reveille | Annie Laurie | |
| Stutter (rapid intermittent) | Stutter (rapid intermittent) Melody Chime | | London Bridge is falling down | |
| Bell (clear high-pitch) Chime | | Ringing Phone | Mary had a little Lamb | |
| Yelp (rapid siren) | Call Sign | Two Tone | Camptown Races | |
| Rapid Hi-Lo | Train Ride | Alarm Clock | Amaryllis | |
| Melody Chime | Galloping Hi-Lo | Ringing Hi-Lo | Mozart Symphony No. 40 | |
| Synthesized Piano | Alien Chatter | Fur Elise | Ave Maria | |
| Synthesized Bell | Falling Crystals | Bach Minuet in Gmaj | Grandfather's Clock | |

Specifications

| Model | BK-24 | BK-100 | BK-220 | | | |
|-----------------------------|--|--------------------------|-------------------|--|--|--|
| Rated Voltage | DC 12V-24V | AC 100V (50/60Hz) | AC 220V (50/60Hz) | | | |
| Operating Voltage Range | DC 10.8V- 26.4V | AC 100V ±10% | AC 200V ±10% | | | |
| Operating Temperature Range | | -20°C - +50°C | | | | |
| Relative Humidity | 8 | 35% RH (No Condensation |) | | | |
| Power Consumption | Maximum 4W | Maxim | um 5W | | | |
| Volume | Adjustable up to a maximum of 90dB (at 1m) when flushmounted. (Volume may be less, depending on surrounding environment and playback sound) | | | | | |
| Input Method | Bit Input | | | | | |
| Input Signal Duration | | Continuous | | | | |
| Boot-up Time | Input Voltage: 1 sec. or less Channel Signal Input: 170msec or less | | | | | |
| Channels | 4 Channels | | | | | |
| Recorded Sound | 32 | Melodies and Alarm Sour | nds | | | |
| Sound Group | | 16 Patterns (A to P) | | | | |
| Protection Rating | IP54 (When f | lush-mounted, Upright di | rection Only) | | | |
| Vibration Resistance | | 19.6m/s ² | | | | |
| Mass | 205 g ±10% 325 g ±10% | | | | | |

Use of Copyrighted Material

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EWHS

Signal Horn

((

105dB at 1m

1 Channel / 32 Sounds

P65 (Available by Special Order

Cable



NPN/PNP Open-collector



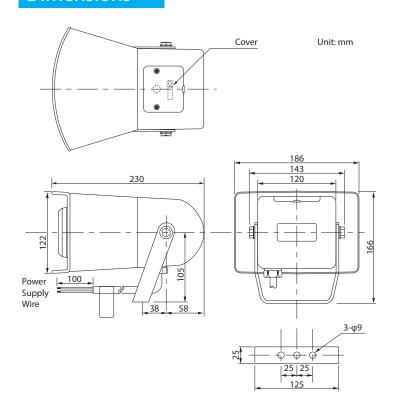
Original wide horn design featuring a high volume of up to 105dB (at 1m), designed for use in noisy environments.

FEATURES

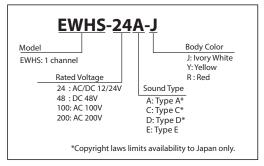
- Select 1 channel from the 32 pre-recorded sounds using the built-in DIP Switch.
- Enhanced for durability and safety in the work environment.
- Adjustable audible sound of up to 105dB (at 1m) with volume control.
- Indoor installation for upright, inverted and sideways position; upright only for outdoors.
 (Do not install with the horn facing upward).
- Has the CE mark and conforms to the requirements (for 12V, 24V type) for the CE directive.
- Anti-corrosive stainless steel mounting bracket makes installation easier.

| ı | Model | Rated Voltage | Voltage Range | Power Consumption | Protection Rating | Operating Temperature Range | Sound Pressure (at 1m) | External Contact Capacity | Channel Inputs | Mass |
|------|-----------|------------------|--------------------------|----------------------|----------------------|-----------------------------------|------------------------------|---------------------------------|-------------------|-------|
| | EWHS -24 | AC/DC 12-24V | AC 8 - 28V DC 9 - 35V | 8W | IP54 | -20°C to +60°C 85% RH or less | 105dB | 5A or more | 1CH | 1.2kg |
| EWHS | EWHS -48 | DC 48V | DC 35 - 60V | 10W | (IP65 by Special | | | | | |
| | EWHS -100 | AC 100V | AC 90 - 132V | 12W | | | | | | 1 4ka |
| | EWHS -200 | AC 200V | AC 180 - 260V | 13W | | | | | | 1.4kg |

Dimensions



How to Order



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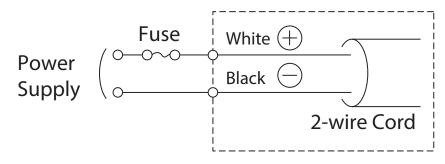
| Туре А | | | (Japan Only) | |
|-------------------------------|------------------------------|--------------------------|-----------------------|--|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) | |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell | |
| Stutter + Bell | Synthesized Melody Chime | Chime | Call Sign | |
| Fur Elise Maiden's Prayer | | Bach Minuet in Gmaj | Annie Laurie | |
| London Bridge is falling down | Hol-di-ri-Dia | Mary had a little Lamb | Camptown Races | |
| Cuckoo Song | Village Blacksmith | On the Bridge of Avignon | Daydream Believer | |
| Amaryllis | Mozart Symphony No. 40 | Quiet Lakeside | Ich bin ein Musikante | |
| Spanish Romance | Katyusha | Grandfather's Clock | Ave Maria | |

| Type D | | | (Japan Only) | |
|-----------------------------------|--------------------------------|--------------------------------|------------------------|--|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) | |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell | |
| Runner | Mamotte Agetai | Chime | Call Sign | |
| Iribiao Kikinagara | September | Doyoubino Koibito | Akino Kehai | |
| Saafu Tengoku Sukii Tengoku | Iro White-blend | Happy Birthday | Hi Ho | |
| I've been working on the Railroad | The Bear Song | Toys Go "Cha-cha-cha" | Konnako Irukana | |
| Schubert's Lullaby | Rudolph the red-nosed Reindeer | She Wore a Yellow Ribbon | My Darling, Clementine | |
| Yellow Rose of Texas | Yankee Doodle | When the Saints Go Marching In | Londonderry Air | |

| Туре С | | | (Japan Only) | | |
|-------------------------------|------------------------------|-------------------------|------------------------------------|--|--|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) | | |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell | | |
| Stutter + Bell | Synthesized Melody Chime | Chime | Call Sign | | |
| Can't take my eyes off of you | Top of the World | The Entertainer | Amazing Grace Rara Sunshine | | |
| Amairono Kamino Otome | Les Champs-Elysees | Canon | | | |
| Uchuusenkan Yamamoto | Oshiete | Makenaide | Gonna Fly Now (Theme from "Rocky") | | |
| I don't Wanna Miss a Thing | Yozorano Mukou | Aiwa Katsu | Haruyo Koi | | |
| Gattsudaze | Odoru Ponpokorin | Imasugu Kisu Mi | Truth | | |

| Туре Е | | | (Worldwide) | |
|------------------------------|------------------|---------------------|-------------------------------|--|
| Beep (slow intermittent) | Stutter + Bell | Inverted Reveille | Annie Laurie | |
| Stutter (rapid intermittent) | Melody Chime | Galactic Motor | London Bridge is falling down | |
| Bell (clear high-pitch) | Chime | Ringing Phone | Mary had a little Lamb | |
| Yelp (rapid siren) | Call Sign | Two Tone | Camptown Races | |
| Rapid Hi-Lo | Train Ride | Alarm Clock | Amaryllis | |
| Melody Chime | Galloping Hi-Lo | Ringing Hi-Lo | Mozart Symphony No. 40 | |
| Synthesized Piano | Alien Chatter | Fur Elise | Ave Maria | |
| Synthesized Bell | Falling Crystals | Bach Minuet in Gmaj | Grandfather's Clock | |

Wiring



| MEMO | |
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For more details, visit our website at http://www.patlite.com

Voice & Sound

















STEP 1

Get the New Playlist Editor 2

The Playlist Editor 2 is free from PATLITE. Download the PATLITE Playlist Editor 2 from our Global Home Page, or contact us by E-mail, which can be located on the back of this catalog.

STEP 2

Get the Recommended SD Card (Model SDV-2GP)

The SDV-2GP is an SD Card approved and supplied by PATLITE. (The PATLITE Corporation is a member of the SD Card Association.)

STEP 3

Create the MP3 messages

Convert any message into MP3 data.

(Remove "ID3" tags and be sure the sample rate is the standard rate of 64kb/sec for PATLITE products and the SD Card is formatted for "FAT16".)

STEP 4

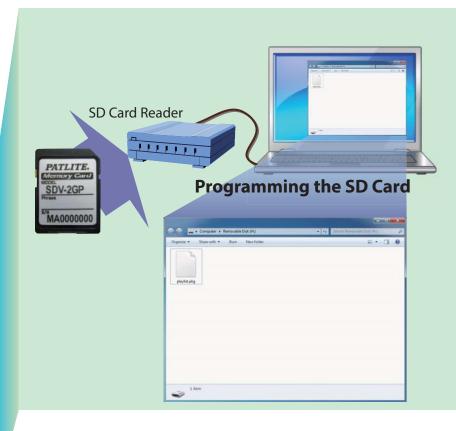
Save the MP3 messages on the SD Card

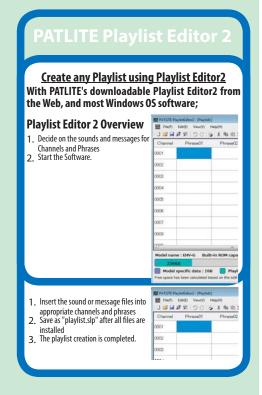
Use the Playlist Editor 2 to create a playlist and save it on an SD Card. (Refer to the product manual for detailed information)

STEP 5

Load the MP3 Data into the Product

Programming can be done right out in the field!
Insert the SD Card into the Product's SD Card slot and listen for the Beep that tells it's programming (Refer to the product manual for detailed information on programming).





Get the Necessary Items:

- 1. An SD Card to save the data onto for rewriting (Recommended Parts: option part SDV-2GP)
- 2. Personal Computer with all hardware operating normally.
- 3. SD card reader/writer (if one is not built inside the personal computer)
- 4. Application Software (PATLITE Playlist Editor 2)
- Corresponding OS: Windows® XP, Windows VistaTM 32 bits/64 bit, Windows® 7 32bit/64 bit, Windows® 8 32bit/64 bit.
- * Writing data onto the SD Card with a computer can be done without the PATLITE Playlist Editor 2, but some functions may be limited. (Refer to the product manual for mor-e details)

Example (EHV)

- 1. Remove the cover to access the SD Card Slot. (Refer to the product manual for more details)
- 2. After inserting the SD Card with the stored data into the slot, a high-low beep will sound to indicate rewriting has begun.
- 3. When a short beep sound is heard, it indicates the rewriting sequence is complete and the SD Card can be removed from the slot.
- * Rewriting should be completed within 60 seconds. The rewriting is not successfully completed if beeping sounds other than indicated above are heard, or when there is no response (Refer to the product manual for more details). In addition, if the volume has been minimized, the beeping sounds cannot be heard.
- 4. Playback the channels to verify the rewriting has been successful. (Refer to the product manual for more details)

Table: Corresponding Application Software

| Application Software | Usable | Outline | | |
|-----------------------------|-----------------------------|---|--|--|
| PATLITE Playlist Editor 2 | All PATLITE Products | This is a newer version of the PATLITE Playlist Editor. A playlist package can be created and the MP3 data and channel function assignment for the product can be rewritten. | | |
| FV-Win | Limited PATLITE Products | This product is not compatible with the playlist created by FV-Win or the PATLITE Playlist Editor. However, the playlic can be changed into a playlist package using the PATLITE Playlist Editor 2. | | |
| PATLITE Playlist Editor | (Products prior to the EHV) | | | |

Caution

• FV-Win or the PATLITE Playlist Editor can only be used with certain models, but the PATLITE Playlist Editor 2 will work with all PATLITE products.

Please

- It is recommended to use Model SDV-2GP (sold separately). Proper operation is not guaranteed with other SD Cards.
- When inserting the SD Card into the slot, be sure to insert it in the proper direction and do not forcibly insert the card. Failure to comply will result in damage to the SD Card and/or product.
- Avoid the intrusion of any foreign substances from entering the card slot.
- While rewriting the messages, do not disconnect power or remove the SD Card.

Note

- · If the SD Card was inserted during message playback, the rewriting procedure will commence soon after the message completes its playback.
- During the message rewrite, any signal inputs on the Audio Input line will be ignored.













STEP 1

Get the Playlist Editor

The Playlist Editor is still free from PATLITE. Contact us by E-mail, which can be located on the back of this catalog.

STEP 2

Get the Recommended SD Card (Model SDV-2GP)

The SDV-2GP is an SD Card approved and supplied by PATLITE. (The PATLITE Corporation is a member of the SD Card Association.)

STEP 3

Create the MP3 messages

Convert any message into MP3 data.

(Remove "ID3" tags and be sure the sample rate is the standard rate of 64b/sec for PATLITE products and the SD Card is formatted for "FAT16".)

STEP 4

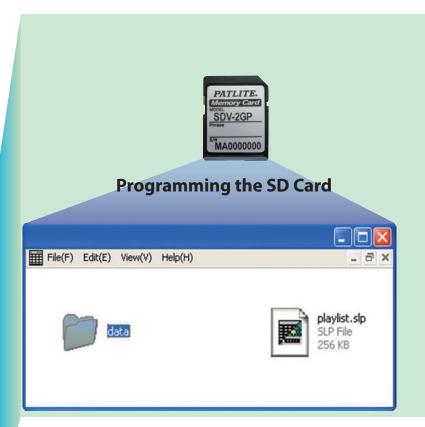
Save the MP3 messages on the SD Card

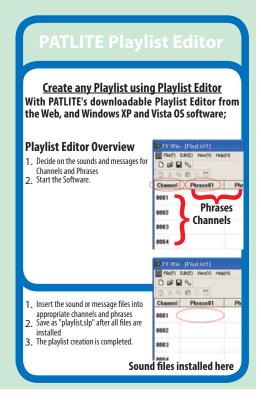
The Model BSV allows two methods for programming with MP3 Data. (Refer to the product manual for detailed information)

STEP 5

Load the MP3 Data into the Product

Programming can be done right out in the field!
Push the SD Card into the Product's SD Card slot and listen for the Beep that tells its programming (Refer to the product manual for detailed information on programming).





Example (BKV, LKEH)

- 1. Open the front cover. (Refer to the product manual for more details)
- 2. After inserting the SD Card with the stored data into the slot, a high-low beep will sound to indicate rewriting has begun.
- 3. When a short beep sound is heard, it indicates the rewriting sequence is complete and the SD Card can be removed from the slot.
 - * Rewriting should be completed within 60 seconds. The rewriting is not successfully completed if beeping sounds other than indicated above are heard, or when there is no response (Refer to the product manual for more details). In addition, if the volume has been minimized, the beeping sounds cannot be heard.
- 4. Playback the channels to verify the rewriting has been successful. (Refer to the product manual for more details)

Please

- It is recommended to use Model SDV-2GP (sold separately). Using other SD Cards is not guaranteed for proper operation.
- Use "FAT16" when formatting the SD Card.
- When inserting the SD Card into the slot, be sure to insert it in the proper direction and do not
 forcibly insert the card. Failure to comply will result in damage to the SD Card and/or product.
- Avoid the intrusion of any foreign substances from entering the card slot.
- While rewriting the messages, do not disconnect power or remove the SD Card.

Note

- If the SD Card was inserted during message playback, the rewriting procedure will commence soon after the message completes its playback.
- During the message rewrite, any signal inputs on the Audio Input line will be ignored.

BSV









Voice Annunciator



87_{dB at 1m}

15 Channels (Binary)

63 Seconds

IP54

□75

NPN/PNP Open-collector



The unbelievably thin design includes space-saving for equipment.

FEATURES

- Sound reduction is made with just one signal input. (When the sound reduction function is used, the number of playback messages is reduced.)
- · Diverse operational modes in combination with commands can be setup for the right application.
- The use of the SD card can allow changing messages while out in the field.
- Protection Rating of IP54 (Only for front panel mount attachment).
- Despite the thin shape, it has a maximum output of 87dB (at 1m).
- It complies with Europe's environment-friendly RoHS Directive.
- Can be used with transistor driven inputs. (Either NPN or PNP)
- · A compact design with only a thickness of 19.9mm.
- Two installation choices of panel or wall mount.
- The volume control is accessible from the front.
- Listed by Underwriters Laboratories Inc.Conforms to the CE requirements.

Easy installation from the front.

With only the need to access the front cover, reduction in labor time and maintenance is simpler with easily removing the front cover for installation and volume adjustment, etc.







Easy turn of the screw to lock!



Options

SD Card (2 GB) SDV-2GP

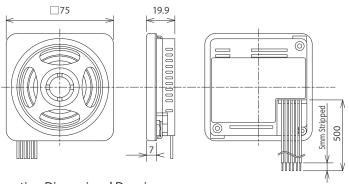
PATLITE Playlist Editor 2 (Free Download)

(OS: Windows® 2000/XP/Vista/Windows 7/Windows 8)

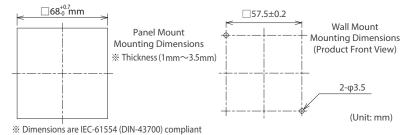
- > The new PATLITE Playlist Editor 2 is required to change the audio message data for this product.
- > The SD Card does not contain any data.



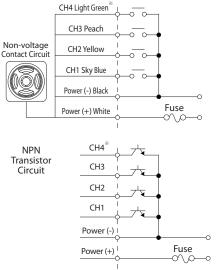
Dimensions

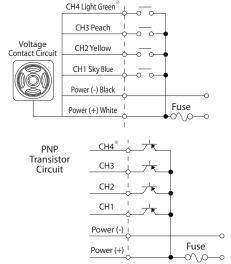


Mounting Dimensional Drawing



Wiring





How to Order

None: 15 Built-in Alarms

Transistor Type N: NPN P: PNP Pre-recorded Message Rough St. Silver Pront Cover Color W: Off-white D: Dark Gray S: Silver

M: Pre-recorded Messages (Caution) If the pre-recorded voice message data is overwritten, all of it will be erased. Also, message data cannot be exported.





With the built-in SD card slot, MP3 data rewriting can be done with an SD card.

In addition to the optional message rewriting with the exclusive PATLITE Playlist Editor 2 Application software, Rewriting or editing MP3 data files is possible without the use of dedicated software.

| Transistor Type | Pre-recorded Data | Model | Front Cover Color | Rated Voltage | Operating Voltage Range | Power Consumption | Sound Level (Max.) | Operating Temperature Range | Maximum Playback Time | No. of Playback Inputs | Protection Rating | Mass |
|--------------------|----------------------|--------------|-------------------------|------------------|-------------------------------|----------------------|--------------------------|-----------------------------------|-----------------------------|------------------------------|--|------|
| | | BSV- 24NM- W | Off-white | | | | | | | | | |
| | VOICE | BSV- 24NM- D | Dark Gray | | | | | -10 - +50°C (RH less than 85%) | | Bit: 4 Binary: 15 | IP54 (Flush-mount, Upright Position) | |
| NPN | | BSV- 24NM- S | Silver | 12-24V DC | 10.8V - 26.4V DC | 1 3 5 1/1/ | 87dB (at 1m) (F | | 63 sec. | | | 100g |
| INPIN | 1 | BSV- 24N- W | Off-white | | | | | | | | | |
| | | BSV- 24N- D | Dark Gray | | | | | | | | | |
| | | BSV- 24N- S | Silver | | | | | | | | | |
| | | BSV- 24PM- W | Off-white | | | | | | | | | |
| | VOICE | BSV- 24PM- D | Dark Gray | | | | | | | | oprigner osition, | |
| PNP | | BSV- 24PM- S | Silver | | | | | | | | | |
| PINP | | BSV- 24P- W | Off-white | | | | | | | | | |
| | ALARM | BSV- 24P- D | Dark Gray | | | | | | | | | |
| | | BSV- 24P- S | Silver | | | | | | | | | |

^{*}Actual sound level will depend on sound type and surrounding operating conditions.





Voice Annunciator



87dB at 1m

15 Channels (Binary)

63 Seconds

P54_(Upright Only)

□80

NPN Open-collector



Excellent sound quality with MP3 playback! This panel-mounted MP3 voice annunciator uses SD cards*, allowing messages to be changed easily. (*Recommended: SDV-2GP)

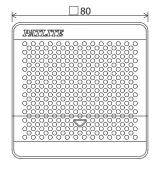
FEATURES

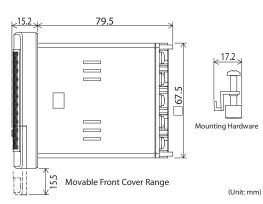
- · Only Flush-mounting style available.
- Able to produce a loud sound of up to 87 dB (at 1m) despite its compact size
- A volume control on the front panel provides an easy way to adjust the sound volume.
- The use of an SD card allows message changes without uninstalling the device.
- Environmentally friendly since the unit complies with the EU RoHS Directives.
- Several playback modes are available for various applications.
- Includes binary input as a standard option for selecting up to 15 messages.
- · Supports input selection using NPN open-collector transistor.
- The unit complies with EU Directives and includes the CE mark (BDV-15JF only)
- Two colors are available for selecting the best color match for the installation.
- Protection rating: IP54 (only the front panel when flush-mounted)

How to Order

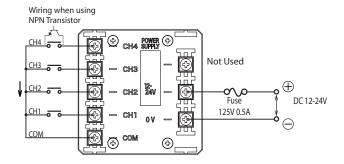
BDV-15JF-J Rated Voltage Color J: DC 12-24V K: AC 100V/220V Strandard Color J: Ivory White K: Dark Gray

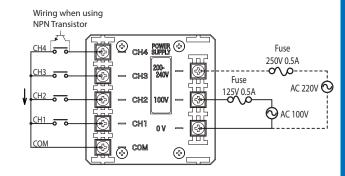
Dimensions





Wiring Diagram





Playback Modes

Mode Selector Switch

Several playback modes for a combination of applications.

A Bit Input Mode Plays back up to 4 messages using Channels 1 to 4.

Binary Input Mode Plays back up to 15 messages using Channels 1 to 4.

Bit Input/ Plays back up to 3 messages using Channels Volume 1 to 3. When Channel 4 receives an input, Reduction Mode the volume is reduced by about -10dB.

Binary Input/ Plays back up to 7 messages using Channels
Volume 1 to 3. When Channel 4 receives an input,
Reduction Mode the volume is reduced by about -10dB.

Plays back up to 7 messages using Channels
1 to 3. If a message input occurs during
Priority Message
Playback Mode
Playback Mode
will stop and allow the input message to
play back.

Plays back up to 15 messages using Channels
1 to 4. If a message input occurs during
playback Mode
Playback Mode
Will stop and allow the input message to
play back.

Bit Input/
Hold Message
Playback Mode

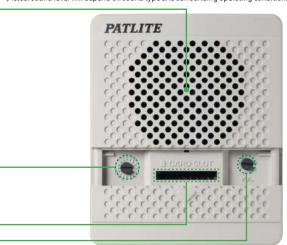
Plays back up to 4 messages using Channels
1 to 4. As long as the input is held on, the
message is played back, once the input is
removed, the message playback stops.

Binary Input/
Hold Message
Playback Mode
Playback Mode
Plays back up to 15 messages using
Channels 1 to 4. As long as the input is held
on, the message is played back, once the
input is removed, the message playback
stops.

Test Playback Mode Plays back Message No. 1

Up to 87dB (at 1m)

Despite its slim appearance, it is able to produce a maximum of 87dB (at 1m). (Actual sound level will depend on sound type and surrounding operating conditions.)



Volume Control

The volume is easily accessable from the front for adjustment.

Memory Card Slot

With an SD Card, messages can be changed while the unit is still mounted.

Options

SD Card (2 GB) SDV-2GP

PATLITE Playlist Editor 2 (Free Download)

(OS: Windows® 2000/XP/Vista/Windows 7/Windows 8)

- > The new PATLITE Playlist Editor 2 is required to change the audio message data for this product.
- > The SD Card does not contain any data.



| Model | Rated Voltage | Operating Voltage Range | Power Consumption | Sound Level (Max.) | Voice File | Operating Temperature Range | Maximum Playback Time | No. of Playback Inputs | Protection Rating | Mass |
|----------|------------------|-----------------------------|----------------------|--------------------------|---|-----------------------------------|-----------------------------|------------------------------|----------------------|------|
| BDV-15JF | DC 12-24V | DC 10.8V - 26.4V | 4W | 0740* | MPEG- Audio Layer (MP3) | -10 - +50°C | | Bit: 4 | IP54 | 220g |
| BDV-15KF | AC 100/220V | AC 100V ±10% AC 220V±10% | 5W | 87dB* (at 1m) | Standard Bit Rate: 64kb/s Fs=44.1kHz | (RH less than 85%) | 63 sec. | | (Flush-mount) | 340g |

^{*}Actual sound level will depend on sound type and surrounding operating conditions.



BKV











95_{dB at 1m}

31 Channels (Binary)

63 Seconds

P54 (Upright Only)

□120

Open-collector

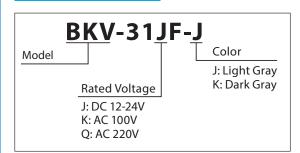


Excellent sound quality with MP3 playback! This panel-mounted MP3 voice annunciator uses SD cards,* allowing messages to be changed easily. (*Recommended: SDV-2GP)

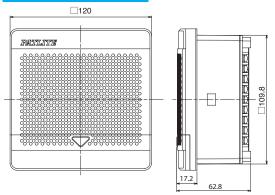
FEATURES.

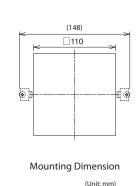
- Only Flush-mounting style available.
- Able to produce a loud sound of up to 87 dB (at 1m) despite its compact size
- A volume control on the front panel provides an easy way to adjust the sound volume.
- The use of an SD card allows message changes without uninstalling the device.
- Environmentally friendly since the unit complies with the EU RoHS Directives.
- Several playback modes are available for various applications.
- Includes binary input as a standard option for selecting up to 15 messages.
- Supports input selection using NPN open-collector transistor.
- The unit complies with EU Directives and includes the CE mark (BKV-15JF only)
- Two colors are available for selecting the best color match for the installation.
- Protection rating: IP54 (only the front panel when flush-mounted)

How to Order



Dimensions





Playback Modes

Mode Selector Switch

Several playback modes for a combination of applications.

| A Bit Inpu | | Plays back up to 5 messages using Channels 1 to 5. |
|------------|--|--|
|------------|--|--|

Binary Input Plays back up to 31 messages using Channels 1 to 5.

Bit Input/ Plays back up to 4 messages using Channels
1 to 4. When Channel 5 receives an input,
Reduction Mode the volume is reduced by about -15dB.

Binary Input/ Cha Volume Reduction Mode

Plays back up to 15 messages using Channels 1 to 4. When Channel 5 receives an input, the volume is reduced by about -15dB.

Bit Input/ E Priority Message Playback Mode

Plays back up to 5 messages using Channels 1 to 5. If a message input occurs during playback of another message, the message will stop and allow the input message to play back.

Binary Input/ Priority Message Playback Mode

Plays back up to 31 messages using Channels 1 to 5. If a message input occurs during playback of another message, the message will stop and allow the input message to play back.

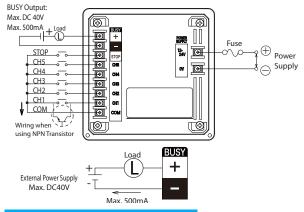
Bit Input/ G Hold Message Playback Mode Plays back up to 5 messages using Channels 1 to 5. As long as the input is held on, the message is played back, once the input is removed, the message playback stops.

Binary Input/ H Hold Message Playback Mode Plays back up to 31 messages using Channels 1 to 5. As long as the input is held on, the message is played back, once the input is removed, the message playback stops.

Test Playback Mode

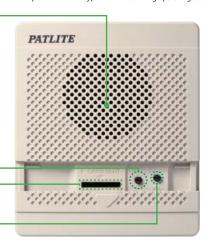
Plays back Message No. 1

Wiring



Up to 95dB (at 1m)

Despite its slim appearance, it is able to produce a maximum of 87dB (at 1m) (Actual sound level will depend on sound type and surrounding operating conditions.)



Vo

Volume Control

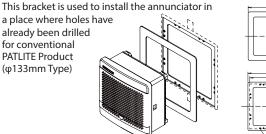
The volume is easily accessable from the front for adjustment.

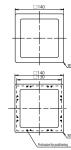
_

Memory Card Slot

With an SD Card, messages can be changed while the unit is still mounted.

Optional Bracket (BK-001)





Options

SD Card (2 GB) SDV-2GP

PATLITE Playlist Editor 2 (Free Download)

(OS: Windows® 2000/XP/Vista/Windows 7/Windows 8)

- > The new PATLITE Playlist Editor 2 is required to change the audio message data for this product.
- > The SD Card does not contain any data.



Specifications

| Model | Rated Voltage | Operating Voltage Range | Power Consumption | Sound Level (Max.) | Voice File | Operating Temperature Range | Maximum Playback Time | No. of Playback Inputs | Protection Rating | Mass |
|----------|------------------|----------------------------|----------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------|------------------------------|----------------------|------|
| BKV-31JF | DC 12-24V | DC 10.8V - 26.4V | 9W | 05.40 | MPEG- Audio Layer (MP3) | 10 . 5000 | | D:+ E | IDE 4 | 350g |
| BDV-31KF | AC 100V | AC 100V ±10% | 10W | 7 950B Standard Rit Pate: 64kb/s | -10 - +50°C (RH less than 85%) | 63 sec. | Bit: 5 Binary: 31 | IP54 (Flush-mount) | 530a | |
| BDV-15KF | AC 220V | AC 220V ±10% | 1000 | (41 1111) | Fs=44.1kHz | 11111033 (11411 03 70) | | Dillary. 31 | (i iusii-iiiouiit) | 3309 |

^{*}Actual sound level will depend on sound type and surrounding operating conditions.

FV-127JP







MP3 File Playback Circuit Board

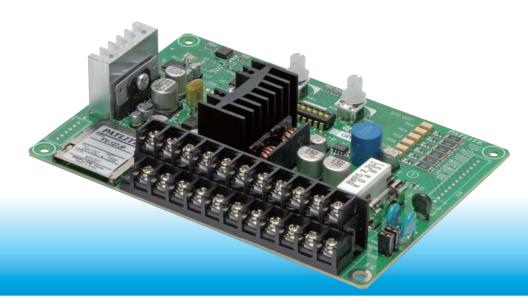


127 Channels (Binary)

8 Minutes

24VDC

NPN/PNP Open-collector



Audio messages can be registered up to 127 channels, ideal for various equipment or facility purpose where the audio message assistance is required.

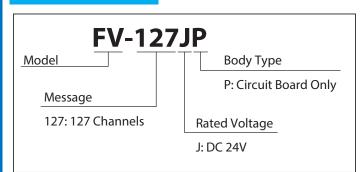
FEATURES

- High quality sound and long playback time.
- MP3 compressed audio file format enables long playback time and high quality sound.
- Approximately eight minutes worth of audio messages can be stored in the onboard memory.
- Capable of 240 minutes of message playback when using an SD card as external memory. (MP3 data at standard 64kbit/s rate and 128Mb SD Card)
- · Audio messages can be overwritten and reprogrammed with the Playlist Editor 2 (free download) and optional SD Card.
- · Data stored in the onboard memory can be extracted to the SD Card.
- 3 sound reduction levels of -10dB, -20dB and -30dB (at 1m) can be controlled by an external signal.
- · Five different playback modes are available

NOISE REDUCTION FEATURES

- Input delay can be selected (10ms or 50ms) to reduce noise
- · Extending the delay to input a signal reduces noise
- Another noise countermeasure can include setting jumper pins OTHER FEATURES
- Terminal block to provide safe and secure wire connections.
- Selectable speaker output (2W or 4W), AUX and BUSY Output terminals.
- Operating voltage range is from 19V to 29V DC (Rated Voltage: 24V DC)
- This product is compliant with the RoHS directive (DIRECTIVE 2002/95/EC)

How to Order



Options SD Card

(2 GB)

SDV-2GP

PATLITE Playlist Editor 2

(Free Download)

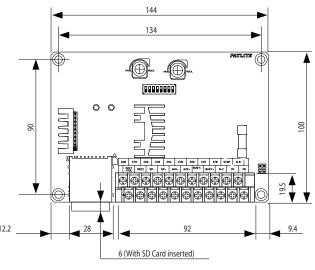
(OS: Windows* 2000/XP/Vista/Windows 7/Windows 8)

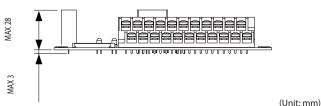
> The new PATLITE Playlist Editor 2 is required to change the audio message data for this product.

> The SD Card does not contain any data.



Dimensions





Playback Modes

Normal Playback Designated audio message is played back by distinctive signal input. Audio message is played back once in case of one shot input, and audio message is repeated when the signal is input continuously.

Memory Playback Up to 23 audio message inputs can be memorized in order of input. After one playback is finished, the next memorized audio message will be played back. The inputs exceeding the limit will not be memorized.

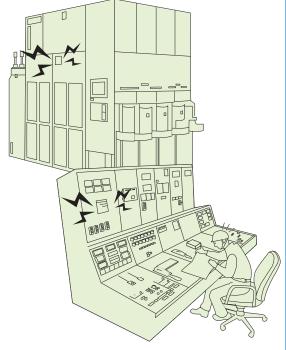
Latest Input and Greater Channel Priority Playback When the signal for a greater channel number is input during the message playback, the audio message being played back will be stopped, and previous audio message input will be played back. When the signal for the same or smaller channel number is input, the signal will not be accepted.

Momentary Playback Audio message is played back only while the signal input is maintained. Playback will be stopped when the signal input is stopped.

Latest Input Priority Playback When the signal is input during the message playback, the audio message being played back will be stopped, and the previous audio message input will be played back.

Specifications

| | General Specifications |
|-----------------------------|---|
| Model Name | FV-127JP |
| Rated Voltage | DC 24V |
| Operating Voltage Range | DC 19 to 29V |
| Wiring Method | M3 Terminal Bus |
| Power Consumption | Maximum 15W (1*) |
| Operating Temperature Range | -10 to 50°C |
| Storage Temperature | -40 to 80°C |
| Relative Humidity | 85% RH or less |
| Operating Environment | Built-in Type Only |
| Installation Method | 4 Screw Tie-down |
| Vibration Resistance | 45m/s2 (30Hz forward and back/Left and right for 2hrs., up and down for 4hrs.) |
| Mass | 160g ±10% |
| Outer Dimensions | 144×100×28 [mm] (Lead Wires and Mounting Posts not included) |
| | Audible Specifications |
| Replay Message Number | For Binary: 127 For Bit Input: 7 |
| Audio File Format | MPEG1-Audio Layer: (MP3) |
| Bit Rate | 32kbit/s; 64kbit/s(Standard); 128kbit/s Fs=44.1kHz |
| Maximum PlaybackTime | On-board Memory (4MB): About 8 min (Recorded with standard bit rate) External Memory (SD Card): With 128MB about 240 min. (Standard Bit Rate Recording) |
| On-board Memory Size | 4,360,191byte |
| Audio Start-up Time | About 260ms (When sound mute not added at beginning and end of messages) |
| Audio Pause Time | Unless specified, 100ms sound mute added at beginning and end of messages |
| Compatable Memory Card | SD Card Recommended Part No.: SDV-2GP (Sold Separate) |
| Card Format | FAT16 |
| Audio Rewrite Capability | Use with Patlite Playlist Editor 2 (Free Download) and an SD Card |
| Audio Rewrite Time | About 180 sec. (When changing the 4MB on-board memory) |
| | Input / Output Specifications |
| Signal Input Section | CH1, CH2, CH3, CH4, CH5, CH6, CH7, STB, CLR, STOP, DEC1/VOL, DEC2 |
| Signal Input Priority | CLR Input > STOP Input > CH Input (Larger Channel takes Priority) |
| Sound Reduction Input | Speaker/AUX Output: Three Sound Reduction Levels of -10dB, -20dB, -30dB (1*) |
| Input Hold Time | More than 10ms or 50ms (Changeable Settings) |
| Signal Input Type | Non-voltage contact or NPN Open Collector |
| Speaker Output | 8Ω compatable speaker of 4W or more, or 8Ω compatable speaker of 2W or more (Switchable Setting) |
| Maximum SoundPressure | Speaker Output at 4W: 105 dB; at 2W: 102dB (2*) |
| AUX Output | 0dBV 600Ω (Adjustable with Volume Control or Sound Reduction Input) |
| BUSY Output | Maximum DC40V, 500mA |



^{(1*) 1}kHz Sine Wave Data Playback at -6dB

^(2*) At 1m with 1kHz Sine Wave Data Playback and SPW-5E Speaker (Sold Separate)

| MEMO | |
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For more details, visit our website at http://www.patlite.com

Hybrid Products



LKEH









MP3 Voice Annunciator & LED Signal Tower









32 Alarm Sounds

105_{dB at 1m}

IP53

(LED) $\Phi 100$

Open-collector



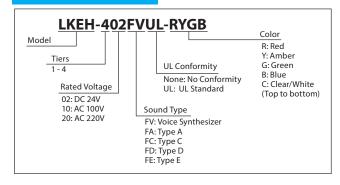
Get the attention you need with the PATLITE fieldprogrammable LKEH Series Hybrid Signal Tower with audible alarm.

- The pre-recorded type offers 32 sounds in one unit with 8 bit input and 32 binary input channel capability.
- The message capacity for the LKEH-FV is 63 seconds (64kbit/s) with 5 bit input and 31 binary input channel capability.
- The LKEH-FV is field-programmable with an SD Card (sold separately).
- Visible from great distance with ultra-bright LEDs and 100 diameter lens.
- A 2G vibration resistant design allows safe use in a high-vibration environment.
- One common wire makes it easy to control both the audio and LED inputs.
- Volume is adjustable from 0 to 105dB (at 1m) to fit various environments.
- Compliance with the RoHS Directives makes it environmentally friendly. Complies with EU directives and includes the CE mark (for 24V type).

AVAILABLE BY SPECIAL ORDER

- · PNP open collector transistor type.
- AC 120V type
- UL Listed (File No. E215660, for 24V type only).

How to Order

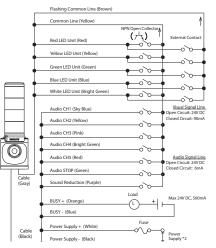


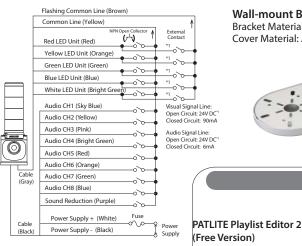
Insert an SD Card into the slot **Ultra-bright LED** Attention Atención Aufmerksamkeit 105dB **Output** (at 1m)

Use of Copyrighted Material

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Wiring





Options

Wall-mount Bracket SZ-023

Bracket Material:Steel Cover Material: ABS Resin





Options

SD Card (2 GB)

SDV-2GP

(OS: Windows® 2000/XP/Vista)

- The new PATLITE Playlist Editor 2 is required to change the audio message data for this product.
- The SD Card does not contain the Playlist Editor software or any audio messages.



Sound Charts

| Туре А | | (Japan Only) | | | |
|--------------------------------------|------------------------------|--------------------------|-----------------------|--|--|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) | | |
| Rapid Hi-Lo | Rapid Hi-Lo Melody Chime | | Synthesized Bell | | |
| Stutter + Bell Synthesized Melody Cl | | Chime | Call Sign | | |
| Fur Elise | Maiden's Prayer | Bach Minuet in Gmaj | Annie Laurie | | |
| London Bridge is falling down | Hol-di-ri-Dia | Mary had a little Lamb | Camptown Races | | |
| Cuckoo Song | Village Blacksmith | On the Bridge of Avignon | Daydream Believer | | |
| Amaryllis | Mozart Symphony No. 40 | Quiet Lakeside | Ich bin ein Musikante | | |
| Spanish Romance | Katyusha | Grandfather's Clock | Ave Maria | | |

| Туре С | | | (Japan Only) |
|---|------------------------------|-------------------------|------------------------------------|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Stutter + Bell Synthesized Melody Chime | | Chime | Call Sign |
| Can't take my eyes off of you | Top of the World | The Entertainer | Amazing Grace |
| Amairono Kamino Otome | Les Champs-Elysees | Canon | Rara Sunshine |
| Uchuusenkan Yamamoto | Oshiete | Makenaide | Gonna Fly Now (Theme from "Rocky") |
| I don't Wanna Miss a Thing Yozorano Mukou | | Aiwa Katsu | Haruyo Koi |
| Gattsudaze | Odoru Ponpokorin | Imasugu Kisu Mi | Truth |

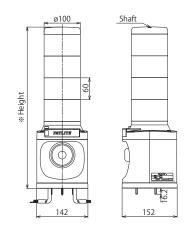
| Type D | | | (Japan Only) |
|-----------------------------------|--------------------------------|--------------------------------|------------------------|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Runner Mamotte Ageta | | Chime | Call Sign |
| Iribiao Kikinagara | September | Doyoubino Koibito | Akino Kehai |
| Saafu Tengoku Sukii Tengoku | Iro White-blend | Happy Birthday | Hi Ho |
| I've been working on the Railroad | The Bear Song | Toys Go "Cha-cha-cha" | Konnako Irukana |
| Schubert's Lullaby | Rudolph the red-nosed Reindeer | She Wore a Yellow Ribbon | My Darling, Clementine |
| Yellow Rose of Texas | Yankee Doodle | When the Saints Go Marching In | Londonderry Air |

| Type E | | | (Worldwide) | |
|---|-----------------|---------------------|-------------------------------|--|
| Beep (slow intermittent) | Stutter + Bell | Inverted Reveille | Annie Laurie | |
| Stutter (rapid intermittent) Melody Chime | | Galactic Motor | London Bridge is falling down | |
| Bell (clear high-pitch) Chime | | Ringing Phone | Mary had a little Lamb | |
| Yelp (rapid siren) Call Sign | | Two Tone | Camptown Races | |
| Rapid Hi-Lo | Train Ride | Alarm Clock | Amaryllis | |
| Melody Chime | Galloping Hi-Lo | Ringing Hi-Lo | Mozart Symphony No. 40 | |
| Synthesized Piano | Alien Chatter | Fur Elise | Ave Maria | |
| Synthesized Bell Falling Crystals | | Bach Minuet in Gmaj | Grandfather's Clock | |

Specifications

| Model | Rated Voltage | Operating Voltage Range | Number of Tiers | Power Consumption | Mass |
|------------|------------------|-------------------------------|--------------------|----------------------|-------|
| LKEH- 102F | | | 1 | 10.6W | 1.4kg |
| LKEH- 202F | DC 24V | DC 24V ±10% | 2 | 12.4W | 1.6kg |
| LKEH- 302F | | DC 24V ±10% | 3 | 14.2W | 1.8kg |
| LKEH- 402F | | | 4 | 16.0W | 2.0kg |
| LKEH- 110F | AC 100V | | 1 | 17.0W | 2.1kg |
| LKEH- 210F | | AC 100V ±10% | 2 | 20.0W | 2.3kg |
| LKEH- 310F | AC 100V | | 3 | 23.0W | 2.5kg |
| LKEH- 410F | | | 4 | 26.0W | 2.7kg |
| LKEH- 120F | | | 1 | 17.0W | 2.1kg |
| LKEH- 220F | AC 220V | AC 220V ±10% | 2 | 20.0W | 2.3kg |
| LKEH- 320F | AC 220V | AC 220V ±10% | 3 | 23.0W | 2.5kg |
| LKEH- 420F | | | 4 | 26.0W | 2.7kg |

Dimensions



1 Tier: 265.2 2 Tiers: 325.3 3 Tiers: 385.4 4 Tiers: 445.5

Mounting Dimensions



(Unit: mm)

⁽Note) The sound pressure level is based on measurements under controlled conditions (voice-synthesized 1 kHz sine wave played back from a distance of 1 meter), therefore the surrounding environmental conditions and message content will result in different values for the sound pressure level.

RFT













90_{dB at 1m}

32 Alarm Sounds

IP54

Open-collector

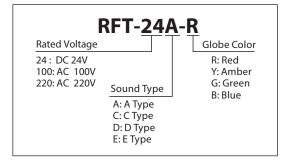


An LED Rotating Light with built-in alarm sounds controllable by binary or bit input for a maximum of 32 sounds!

FEATURES

- Sound reduction feature to drop the volume by about 10dB (at 1m) when an input signal is received (Binary Mode only).
- Using an SD Card can allow customization of one sound group to be re-arranged using any of the pre-installed sounds.
- Compliance with the RoHS Directives makes it environmentally friendly.
- Complies with EU directives and includes the CE mark (for 24V type).
- Can be controlled with NPN open-collector transistor inputs.
- A side panel access allows easier volume adjustment.
- Produces a loud sound of up to 90dB (at 1m)

How to Order



| Type E | Туре Е | | | | | | | |
|---|---|---------------------|-------------------------------|--|--|--|--|--|
| Beep (slow intermittent) | Beep (slow intermittent) Stutter + Bell | | Annie Laurie | | | | | |
| Stutter (rapid intermittent) Melody Chime | | Galactic Motor | London Bridge is falling down | | | | | |
| Bell (clear high-pitch) | Chime | Ringing Phone | Mary had a little Lamb | | | | | |
| Yelp (rapid siren) Call Sign | | Two Tone | Camptown Races | | | | | |
| Rapid Hi-Lo Train Ride | | Alarm Clock | Amaryllis | | | | | |
| Melody Chime | Galloping Hi-Lo | Ringing Hi-Lo | Mozart Symphony No. 40 | | | | | |
| Synthesized Piano Alien Chatter | | Fur Elise | Ave Maria | | | | | |
| Synthesized Bell | Falling Crystals | Bach Minuet in Gmaj | Grandfather's Clock | | | | | |

Side access design enables easy post-installation maintenance

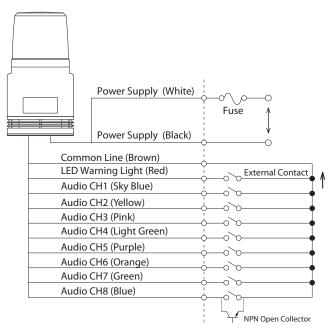


The sound reduction function reduces the volume by approx. -10dB (at 1m), a feature ideal for use at night time together with a timer or



Wiring

RFT



Options

• RF-001: Wall Mount Bracket



• RF-002 Ceiling Mount Bracket



Options

SD Card (2 GB) SDV-2GP

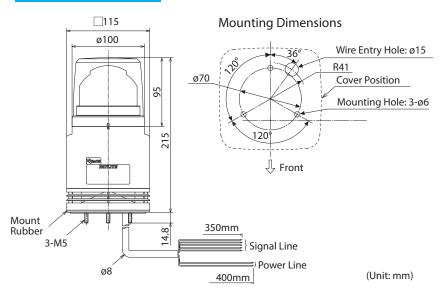
PATLITE Playlist Editor 2 (Free Version)

(OS: Windows® 2000/XP/Vista)

- > The new PATLITE Playlist Editor 2 is required to change the audio message data for this product.
- > The SD Card does not contain the Playlist Editor software or any audio messages.



Dimensions



Specifications

| Series | Model | Rated Voltage | Operating Voltage Range | Maximum Power Consumption | Sound Level | Operating Temperature Range | Flashes per Minute | Protection Rating | Vibration Resistance | Mass | | | |
|--------|---------|------------------|----------------------------|---------------------------------|----------------------|-----------------------------------|-----------------------|------------------------------|-------------------------|--------|------|--|-------|
| | RFT-24 | DC 24V | DC 24V ±10% | 12 W | | | M 00 ID | 14 00 ID | 1006 . 5006 | | 1054 | | 1.0kg |
| RFT | RFT-100 | AC 100V | AC 100V ±10% | 13 W | Max. 90dB (at 1m) | -10°C - +50°C (85%RH or less) | 115 ±15 | IP54 (When Flush-mounted) | 19.6m/s ² | 1 21/4 | | | |
| | RFT-220 | AC 220V | AC 220V ±10% | 13 W | (at IM) | (85%)(11011633) | | (when ham-mounted) | | 1.2kg | | | |

Actual sound level will depend on sound type and operating conditions.

※) Even when starting two or more units simultaneously, a lag will occur during message playback.

RFV

MP3 Voice Annunciator & LED Signal Tower





15 Channels (Binary)

95_{dB at 1m}

IP54

_115

NPN/PNP Open-collector



The RFV series is a combination of LED rotating beacon light and MP3 programmable sound unit.

FEATURES

- Field-programmable with an SD Card (sold separately).
- Message capacity of 63 seconds (64kbit/s) with bit input of 4 channels and 15 channels by binary input.
- Volume is adjustable from 0 to 95dB (at 1m) to fit various environments.
- A 4.5G vibration resistant design allows safe use in a high-vibration environment.
- Other Unique Features:
- Maintenance reduced with long service ultra-bright LEDs that can last over 5 years with 24/7 continuous operation.
- 2. Highly-visible with a special optical reflector design.
- 3. Special gear-driven mechanism provides reliability, even after 10 years of no operation.
- 4. Tight-locking dome stays on, even in high vibration environments.
- 5. Designed for inverted installation.

AVAILABLE BY SPECIAL ORDER

• PNP open collector transistor type.

Voice message is field programmable with an SD card (sold separately), and the volume can be easily accessed from the side panel, even after installation.



The sound reduction function reduces the volume by approx. -15dB (at 1m), a feature ideal for use at night time together with a timer or sensor.

Attention Atención Aufmerksamkeit

How to Order

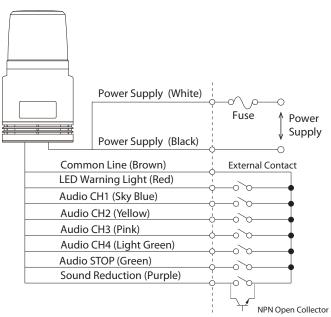
RFV-24F-R Rated Voltage 24: 24V DC 100: 100V AC 220: 220V AC R:Red Y: Amber B: Blue

Use of Copyrighted Material

PATLITE Corporation has not applied for permission to use certain copyrighted music or songs recorded for Type-A, Type-C and Type-D melody charts outside of Japan. Therefore, please contact the local copyright association for permission before using the product in case this product is used outside of Japan. melody chart Type-E is recommended for use outside of Japan as this playlist does not include copyrighted music or songs, and permission is not required.

Wiring





Options

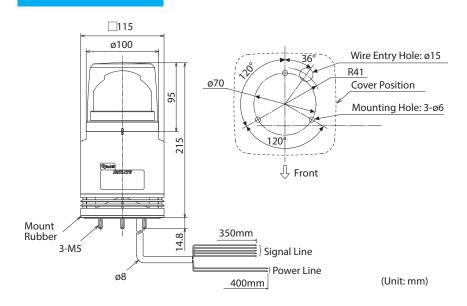
• RF-001: Wall Mount Bracket



• RF-002 Ceiling Mount Bracket



Dimensions



Options

SD Card (2 GB) SDV-2GP

(Free Version)

PATLITE Playlist Editor 2

(OS: Windows® 2000/XP/Vista)

> The new PATLITE Playlist Editor 2 is required to change the audio message data for this product.

> The SD Card does not contain the Playlist Editor software or any audio messages.



Specifications

| Series | Model | Rated Voltage | Operating Voltage Range | Maximum Power Consumption | Sound Level | Operating Temperature Range | Flashes per Minute | Protection Rating | Vibration Resistance | Mass | | |
|--------|---------|------------------|----------------------------|---------------------------------|----------------------|-----------------------------------|-----------------------|------------------------------|-------------------------|-------|--|-------|
| | RFV-24 | DC 24V | DC 24V ±10% | 18 W | 14 OF ID | 14 OF ID | M 05 ID | 1006 . 5006 | | 105.4 | | 1.0kg |
| RFV | RFV-100 | AC 100V | AC 100V ±10% | 16W | Max. 95dB (at 1m) | -10°C - +50°C (85%RH or less) | 115 ±15 | IP54 (When Flush-mounted) | 19.6m/s ² | 1.2kg | | |
| F | RFV-220 | AC 220V | AC 220V ±10% | 1000 | (at IIII) | (0.5 /01111 01 1633) | | (which hasil-illounted) | | 1.2Kg | | |

Actual sound level will depend on sound type and operating conditions.

 $[\]begin{tabular}{ll} $\%$ Even when starting two or more units simultaneously, a lag will occur during message playback. \end{tabular}$



RT

Hybrid MP3 & Revolving Light

 ϵ





32 Alarm Sounds

105_{dB at 1m}

63 Seconds

IP23

NPN **Open-collector**







Large horn with revolving warning light featuring clear sound up to 105dB (at 1m).

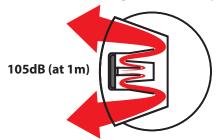
FEATURES

- Built-in Adjustable alarm with a sound of up to 105dB (at 1m).
- High sound quality with the MP3 voice synthesizer (RT-VF only).
- Installation is in the upright position only.
- Dome is made of superior weather-resistant and light-translucent acrylic resin.
- Available colors are Red, Amber, Green, and Blue.
- Complies with EU directives and includes the CE mark (for 24V type).

AVAILABLE BY SPECIAL ORDER

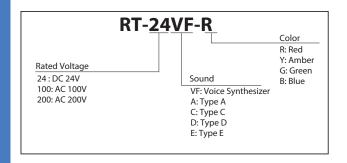
- · Cable: Versatile and flexible 3m cable
- AC 120V type
- IP65 rating
- UL Conformity

Horn Configuration Concept

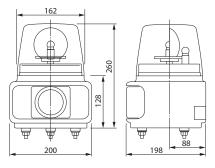




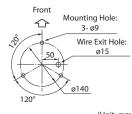
How to Order



Dimensions

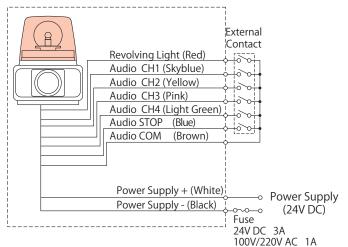


Mounting Dimensions



(Unit: mm)

RT-A/C/D/E



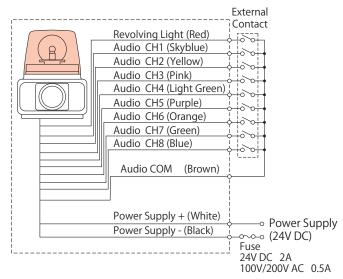
*more than 100ms input is required to activate.

Channel Priority:

4 (Light Green) > 3 (Pink) > 2 (Yellow) > 1 (Skyblue)

The greater number has priority when any of the channels are activated simultaneously.

RT-FV



Channel Priority:

8 (Blue) > 7 (Green) > 6 (Orange) > 5 (Red) > 4 (Light Green) > 3 (Pink) > 2 (Yellow) > 1 (Skyblue)

The greater number has priority when any of the channels are activated simultaneously.

Specifications

| Series | Model | Rated | | Power | Bulb | | Sound | | Rotations per | Sound | Channel | Mass | | | | | | | | |
|--------|----------|---------|---------------|-------------|------------|-----------|----------------------|-------------------|---------------|-------------------|--------------|--------|--|--|--|--|-----|---|----------------------|-------|
| Jenes | Model | Voltage | Voltage Range | Consumption | Ratings | Repl. No. | Level | Temperature Range | Minute | Level | Input | Mass | | | | | | | | |
| | RT-24VF | DC 24V | DC 21 - 27V | 24 W | 24V 20W | 55 | 14 00 ID | | 115 | | D:: 4 | 2.0kg | | | | | | | | |
| Voice | RT-100VF | AC 100V | AC 90 - 100V | 32 W | 121/1514/ | F.4 | Max. 90dB | (at 1m) | 105 | Bit: 4 Binary: | | 2.41.5 | | | | | | | | |
| | RT-220VF | AC 220V | AC180 - 240V | 30 W | 12V 15W | 54 | (at IIII) | -10°C - +50°C | 95 | | 3 | 2.4Kg | | | | | | | | |
| | RT-24 🗌 | DC 24V | DC 21 - 27V | 24 W | 24V 20W | 55 | Max. 95dB (at 1m) | (85%RH or less) | 115 (at | (at 1m) | Di. o | 2.0kg | | | | | | | | |
| Sound | RT-100 🗌 | AC 100V | AC 90 - 100V | 32 W | 121/1514/ | EA | | | | | | | | | | | 105 | l | Bit: 8 Binary: 32 | 2.5kg |
| | RT-220 □ | AC 220V | AC180 - 240V | 30 W | 12V 15W 54 |) 54 | | | 95 | Dillar | Diriai y. 32 | 2.5Kg | | | | | | | | |

Actual sound level will depend on sound type and operating conditions.

※) Even when starting two or more units simultaneously, a lag will occur during message playback.

Sound Chart

| Туре Е | | | | | | | |
|---|------------------|--|------------------------|--|--|--|--|
| Beep (slow intermittent) Stutter + Bell | | Inverted Reveille | Annie Laurie | | | | |
| Stutter (rapid intermittent) Melody Chime | | Galactic Motor London Bridge is fallin | | | | | |
| Bell (clear high-pitch) Chime | | Ringing Phone | Mary had a little Lamb | | | | |
| Yelp (rapid siren) | Call Sign | Two Tone | Camptown Races | | | | |
| Rapid Hi-Lo | Train Ride | Alarm Clock | Amaryllis | | | | |
| Melody Chime | Galloping Hi-Lo | Ringing Hi-Lo | Mozart Symphony No. 40 | | | | |
| Synthesized Piano | Alien Chatter | Fur Elise | Ave Maria | | | | |
| Synthesized Bell | Falling Crystals | Bach Minuet in Gmaj | Grandfather's Clock | | | | |

Use of Copyrighted Material

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Melody/Alarm & LED Tower









Open-collector







Multi-tiered Revolving Warning Light integrated with voice synthesizer or melody alarm for various applications.

FEATURES

- · Eight Channels for Bit Input. (Binary Input: 32)
- Lens is made of superior weather-resistant and light-translucent acrylic resin.
- Built-in adjustable sound of up to 95dB (at 1m) with volume control.
- Warning lights and alarms can be controlled together or separately.
- · Available Colors are in Red, Amber, Green, and Blue.
- Installation is available in the upright position only.

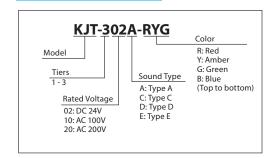
Sound Chart

| Ту | /pe E | | | |
|---|-----------------------------|-----------------|-------------------------------|------------------------|
| Beep (slow intermittent) Stutter + Bell | | Stutter + Bell | Inverted Reveille | Annie Laurie |
| Stutter (rapid intermittent) Melody Chime | | Galactic Motor | London Bridge is falling down | |
| Bell (clear high-pitch) Chime | | Chime | Ringing Phone | Mary had a little Lamb |
| | Yelp (rapid siren) Call Si | | Two Tone | Camptown Races |
| | Rapid Hi-Lo Train Ride | | Alarm Clock | Amaryllis |
| | Melody Chime | Galloping Hi-Lo | Ringing Hi-Lo | Mozart Symphony No. 40 |
| | Synthesized Piano | Alien Chatter | Fur Elise | Ave Maria |
| | Synthesized Bell Falling Cr | | Bach Minuet in Gmaj | Grandfather's Clock |

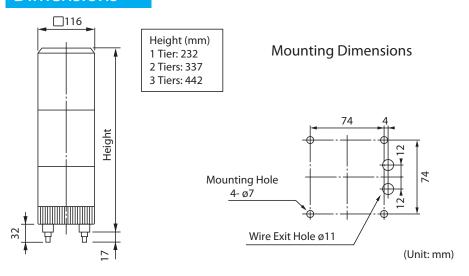
Use of Copyrighted Material

PATLITE Corporation has not applied for permission to use certain copyrighted music or songs recorded for Type-A, Type-C and Type-D melody charts outside of Japan. Therefore, please contact the local copyright association for permission before using the product in case this product is used outside of Japan. melody chart Type-E is recommended for use outside of Japan as this playlist does not include copyrighted music or songs, and permission is not required.

How to Order

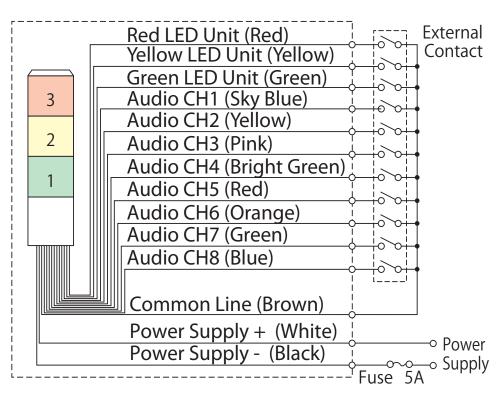


Dimensions





Wiring



Channel Priority: 8 (Blue) > 7 (Green) > 6 (Orange) > 5 (Red) > 4 (Light Green) > 3 (Pink) > 2 (Yellow) > 1 (Skyblue) The greater number has priority when any of the channels are activated simultaneously.

Specifications

| | Model | | Rated Voltage | Operating | Power | Ві | ılb | Rotations | Sound Level | Operating | Channala | Mass |
|----------|--------|----------|---------------|----------------|-------------|-----------|-----------|------------|--------------|----------------------------------|----------|--------|
| | | | Rated voitage | Voltage Range | Consumption | Ratings | Repl. No. | per Minute | 30una Levei | Temperature Range | Channels | IVIASS |
| | | KJT- 102 | 24V AC/DC | AC/DC 21 - 27V | 25W/18W | 24V 10W | 10 | 135 | | -20°C - +50°C (85%RH or less) | 8 Ch | 1.4kg |
| | | KJT- 110 | AC 100V | AC 90 - 110V | 20W | 12V 5W 12 | 12 | 12 120 | 95dB (at 1m) | | | 1.7kg |
| | | KJT- 120 | AC 200V | AC 180 - 240V | | | 12 | | | | | 1.7 kg |
| Alarm/ | 2 Tier | KJT- 202 | 24V AC/DC | AC/DC 21 - 27V | 36W/28W | 24V 10W | 10 | 135 | | | | 2.0kg |
| Melody | | KJT- 210 | AC 100V | AC 90 - 110V | 26W | 12V 5W | 12 | 120 | | | | 2.4kg |
| Iviciouy | | KJT- 220 | AC 200V | AC 180 - 240V | | | | | | | | 2.4Kg |
| | | KJT- 302 | 24V AC/DC | AC/DC 21 - 27V | 47W/38W | 24V 10W | 10 | 135 | | | | 2.6kg |
| | 3 Tier | KJT- 310 | AC 100V | AC 90 - 110V | 32W | 12V 5W | 12 | 12 120 | | | | 3.0kg |
| | | KJT- 320 | AC 200V | AC 180 - 240V | 3200 | | 12 | | | | | 3.0kg |

| MEMO |
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For more details, visit our website at http://www.patlite.com

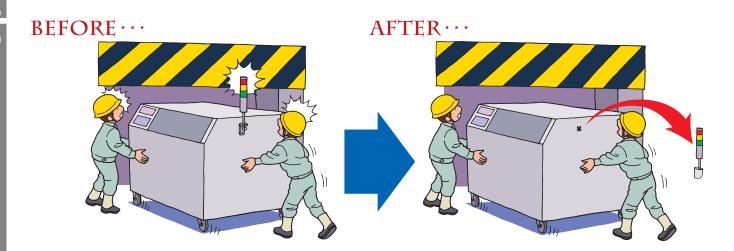
Optional Parts



Optional Parts

Wall Mount Bracket

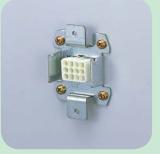
- Avoid Potential Trouble when moving machinery!
- Easily removable connection! (Wiring unplugs along with it!)
- Easy to disconnect when needing repair!



Easy steps to installing the bracket



Drill the holes on the machine to attach the mounting connector and bracket.



Fix the mounting parts onto the machine with the proper hardware.



Join the connectors together.

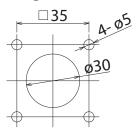


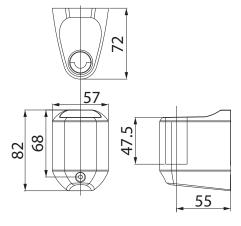
Hook the mounting bracket onto the metal tabs and attach it with the screws.

SZ-020 (For φ 21.7mm Pole) SZ-021 (For φ 17.3mm Pole)



Mounting Dimensions







Wire connector SZ-020-001 (Sold Separately)

MP-B

Signal Tower Option



Ф30

85_{db} at 1m

Electronic , Sound



Specifications

| Model | | Rated Voltage | Sound Level | Power Consumption | |
|-------|--------|------------------|--------------|----------------------|--|
| (| ◯ MP-B | AC/DC 24V | 80dB (at 1m) | 0.7W | |

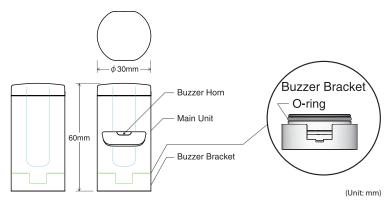
Requires Red LED Module

FEATURES

- Double-insulation for enhanced durability and safety
- Direct mount installation with just a single screw
- Main body made of heat resistant ABS resin for superior impact resistance
- Compatible with the MP and MPS Signal Tower (The Red module is required when using the optional MP-B)

Part Names and Dimensions

 Operates in conjunction with the Red LED module (Alarm activation with other colors must be special ordered).



DEB





FEATURES

- · LED Color emits a Warm White color
- Suitable lighting for Patlite Compatible Rotating Lamp Series.
- Replacable with AC Lamp Bulbs for Patlite Products.

COMPATIBLE MODELS:

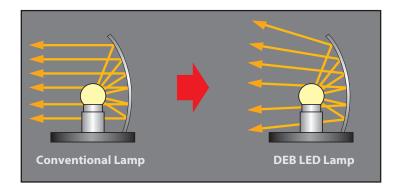
SKH-110A/120A, SKHB-100A/200A, SKH-100EA/200EA RH/RK(B)-100A/120AUL/200A/240AUL

WH/WK(B)(S)-100A/200A

KJS(B)-110/210/310/120/220/320

KJ(B)-110/210/310/410/120/220/320/420

KJT-110/210/310/120/220/320





Specifications

| Model | Rated Power Voltage Consumption | | LED Color | Lamp Base | Mass |
|--------------|------------------------------------|-------------------|------------|-----------|------|
| DEB-15SBA-CL | AC 12V | 1.7W (at AC13.5V) | Warm White | BA15S | 9.8g |

SZ-018

Ivory White



SZ-018U

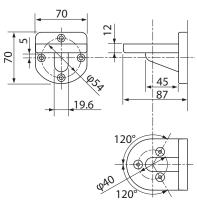
Silver



SZ-018K

Black







SZ-028

65.6



SZ-017

Maximum Mounting Hole Size

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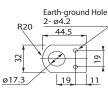
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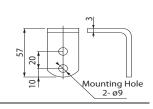
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SZ-012 (Pole not included)





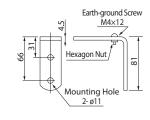


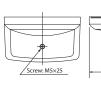
SZ-013 (Pole not included)

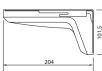


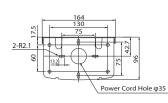






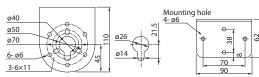






SZ-007





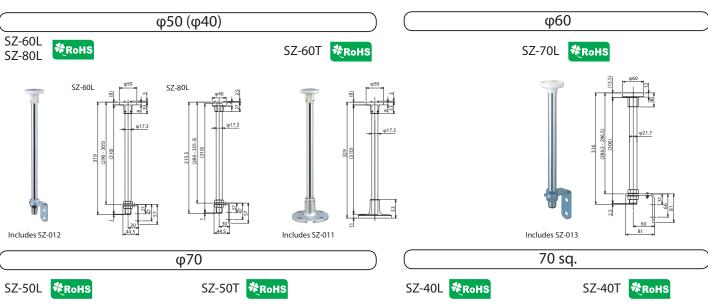
SZ-008

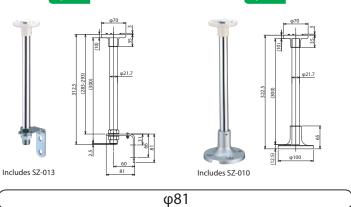


| 950 970 9120 9140 926 6-6×18 9 6-6×21 74 4-97 Mounting hole 6-6×7 9 0 9 0 9 0 9 0 9 0 9 0 9 0 9 0 |
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| Model | Material | Compatable Models | |
|--------|--------------------------|---------------------------------------|--|
| SZ-017 | Aluminum Alloy Die-cast | LME, RUP | |
| SZ-018 | PBT/ABS Resin | III7 IME I HE | |
| SZ-028 | PDI/ADS RESIII | LU7, LME, LHE | |
| SZ-020 | ABS Resin | LU5, LU7, LME, LMS, RUP, | |
| SZ-021 | ADS RESITI | LC, LCS, LE, LES-A | |
| SZ-007 | Electro-galvanized Steel | LU7, LHE-A, Pitch for φ50, | |
| SZ-008 | Electro-galvanized Steel | φ70, φ120, φ140 and 74mm ² | |
| SZ-023 | Bracket: Steel | Pitch for φ50, φ70, φ120, | |
| 32-023 | Bracket Cover: ABS | φ140, and 74mm² | |
| SZ-012 | Hot-rolled Mild Steel | LCE, LCS, LE, LES, | |
| SZ-013 | not-rolled Mild Steel | LME, ME, MP | |

Mounting Pole









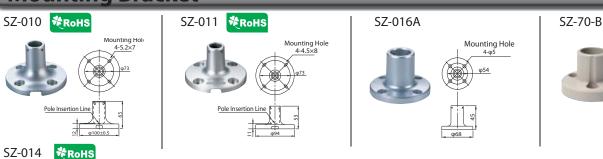


| | Material | | | | | | | | |
|--------|--|----------------------|----------------|-----------------|---------------------|----------------------|--|--|--|
| Model | Upper Bracket | Pole | 'L' Bracket | Cord Bushing | Mounting Bracket | Compatable Models | | | |
| SZ-80L | ABS Resin | 6 1 | SPHC | 6/6 Nylon | _ | LCE-W | | | |
| SZ-60L | ADC12 | Carbon-steel Pipe | SPHC | 6/6 Nylon | _ | LE-W, LES-AW | | | |
| SZ-60T | ADC12 | ripc | _ | _ | ADC12 | LE-VV, LE3-AVV | | | |
| SZ-70L | ABS Resin | Carlo and a stand | SPHC | EPT | _ | LME-W | | | |
| SZ-50L | ADC12 | Carbon-steel Pipe | SPHC | EPT | _ | LU7, LHE-A | | | |
| SZ-50T | ADC12 | | _ | _ | ADC12 | LU7, LHE-A | | | |
| SZ-40L | ADC12 | | SPHC | EPT | | KUS | | | |
| SZ-40T | ADC12 | Carbon-steel | _ | _ | ADC12 | KUS | | | |
| SZ-30L | ABS Resin | Pipe | SPHC | EPT | _ | RLE, RU, RH, PS, | | | |
| SZ-30T | עסט עפטווו | | _ | _ | ADC12 | PES-A | | | |
| ADC12: | ADC12: Aluminum Allov Die-cast SPHC: Hot Rolled Milled (Sheet) Steel | | | | | | | | |

ADC12: Aluminum Alloy Die-cast EPT: Ethylene Propylene Rubber

SPHC: Hot Rolled Milled (Sheet) Steel

Mounting Bracket



| 10 | | | |
|----|---------|----------------------------|------------------------------|
| | Model | Material | Compatable Models |
| | SZ-010 | | RUP, LME, LMS, LHE |
| | SZ-011 | Aluminum Alloy Die-cast | LCE, LCS, LE, LES-A |
| | SZ-016A | | LU5, LU7, RUP, LME, LMS, LHE |
| | SZ-014 | Cold-rolled Milled Steel | LE, LES-A |
| | SZ-70-B | ABS | φ21.7mm Pole |

LU7 Upper Bracket



SZ-50-U

Ivory White



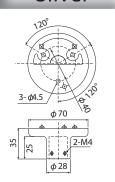
SZ-50K-U

Black



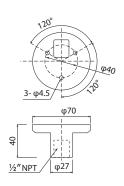
SZ-50U-U

Silver



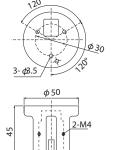


SZ-50NPT

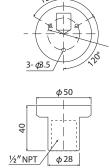


LU5 Upper Bracket



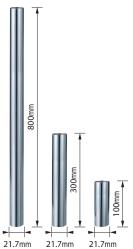


φ32



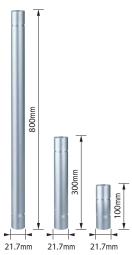
Pole

Steel Pole



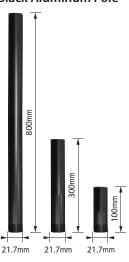
800mm : **POLE-800S21** 300mm : **POLE-300S21** 100mm : **POLE-100S21**

Aluminum Pole



800mm : POLE-800A21 300mm : POLE-300A21 100mm : **POLE-100A21**

Black Aluminum Pole

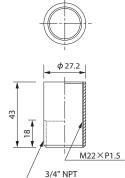


800mm : **POLE-800A21K** 300mm : **POLE-300A21K** 100mm : **POLE-100A21K**

NPT Adaptor

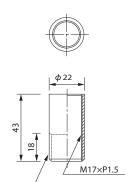
SZ-904







SZ-903



1/2" NPT

Rubber Gasket

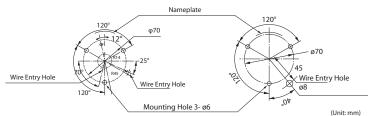
SZ-200A





| Model | Material | Compatable Models |
|---------|--------------------|-------------------|
| SZ-200A | Ethylene Propylene | RH(B) |
| SZ-210 | Rubber | RU, RLE, PSE, PES |

Mounting Dimensions

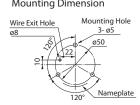


SZ-210

RoHS



Mounting Dimension



LS7 Options

Wall Mounting Bracket SZ-110





SZ-110S



SZ-110D



SZ-130



Multi-mount Bracket SZ-130

SZ-130S



SZ-130D





SZ-100

Outer Cover for LS7*

Part No.:

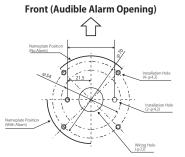
B45110011-F1



SZ-100S



SZ-100D



M12 Connector & Cable SZ-120-02 Cable Length 2m (XS2F-D821-DH0-R) SZ-120-05 Cable Length 5m (XS2F-D821-GH0-R) SZ-120-10 Cable Length 10m (XS2F-D821-JH0-R) * Only for connecting to the LS7.

Replacement Parts



O-ring for LS7 Part No.: Z35721039-F1



Mount Cover for LS7 (Accessory) B81910001-F1

A Options



Rear Attachment (Magnetic Mount) Model SZ-310ARM



Side Attachment (Screw Mount) Model SZ-310AS



Side Attachment (CLB-24N Compatible) Model SZ-310ASB



Rear Attachment (Stainless Steel Screw Mount) Model SZ-310EU

CLK Options

M12 Quick Disconnect



4-wire M12 Socket Cable, 5m (No. 1536308) 4-wire M12 SUS Socket Cable, 5m (No. 1552447)

Daisy Link at a maximum of 5 Units



One-touch Installation





Angle Adjustment Bracket

Surface-mounting Bracket



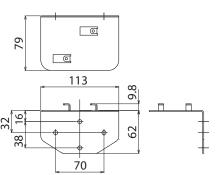


SZ-320KS

NHL Options



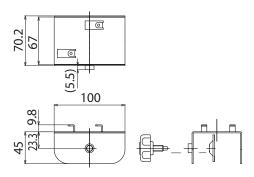
Wall Mount Bracket NH-WST







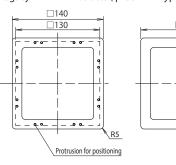
Partition Bracket NH-PST

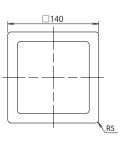


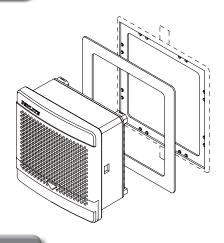
BKV Options

BK-001 Size Adjustment Bracket

This bracket is used to install the annunciator in a place where holes have already been drilled for legacy PATLITE Products (φ133mm² Type)





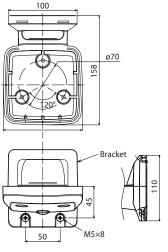


RFT/RFV Options

Wall Mount Bracket



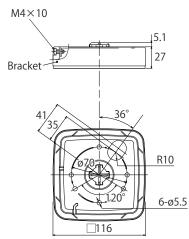
RF-001 Wall Mount Bracket



Ceiling Mount Bracket



RF-002 Ceiling Mount Bracket



(Unit: mm)







(Unit: mm)

Melody Charts

| Туре А | | | (Japan Only) |
|-------------------------------|--|--------------------------|-----------------------|
| Beep (slow intermittent) | Stutter (rapid intermittent) Bell (clear high-pitch) | | Yelp (rapid siren) |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Stutter + Bell | Synthesized Melody Chime | Chime | Call Sign |
| Fur Elise | Maiden's Prayer | Bach Minuet in Gmaj | Annie Laurie |
| London Bridge is falling down | Hol-di-ri-Dia | Mary had a little Lamb | Camptown Races |
| Cuckoo Song | Village Blacksmith | On the Bridge of Avignon | Daydream Believer |
| Amaryllis | Mozart Symphony No. 40 | Quiet Lakeside | Ich bin ein Musikante |
| Spanish Romance | Katyusha | Grandfather's Clock | Ave Maria |

| Туре С | Гуре С | | | | | | |
|-------------------------------|------------------------------|-------------------------|------------------------------------|--|--|--|--|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) | | | | |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell | | | | |
| Stutter + Bell | Synthesized Melody Chime | Chime | Call Sign | | | | |
| Can't take my eyes off of you | Top of the World | The Entertainer | Amazing Grace | | | | |
| Amairono Kamino Otome | Les Champs-Elysees | Canon | Rara Sunshine | | | | |
| Uchuusenkan Yamamoto | Oshiete | Makenaide | Gonna Fly Now (Theme from "Rocky") | | | | |
| I don't Wanna Miss a Thing | Yozorano Mukou | Aiwa Katsu | Haruyo Koi | | | | |
| Gattsudaze | Odoru Ponpokorin | Imasugu Kisu Mi | Truth | | | | |

| Гуре D | | | (Japan Only |
|-----------------------------------|--------------------------------|--------------------------------|------------------------|
| Beep (slow intermittent) | Stutter (rapid intermittent) | Bell (clear high-pitch) | Yelp (rapid siren) |
| Rapid Hi-Lo | Melody Chime | Synthesized Piano | Synthesized Bell |
| Runner | Mamotte Agetai | Chime | Call Sign |
| Iribiao Kikinagara | September | Doyoubino Koibito | Akino Kehai |
| Saafu Tengoku Sukii Tengoku | Iro White-blend | Happy Birthday | Hi Ho |
| I've been working on the Railroad | The Bear Song | Toys Go "Cha-cha-cha" | Konnako Irukana |
| Schubert's Lullaby | Rudolph the red-nosed Reindeer | She Wore a Yellow Ribbon | My Darling, Clementine |
| Yellow Rose of Texas | Yankee Doodle | When the Saints Go Marching In | Londonderry Air |

| Туре Е | | | (Worldwide) |
|------------------------------|------------------|---------------------|-------------------------------|
| Beep (slow intermittent) | Stutter + Bell | Inverted Reveille | Annie Laurie |
| Stutter (rapid intermittent) | Melody Chime | Galactic Motor | London Bridge is falling down |
| Bell (clear high-pitch) | Chime | Ringing Phone | Mary had a little Lamb |
| Yelp (rapid siren) | Call Sign | Two Tone | Camptown Races |
| Rapid Hi-Lo | Train Ride | Alarm Clock | Amaryllis |
| Melody Chime | Galloping Hi-Lo | Ringing Hi-Lo | Mozart Symphony No. 40 |
| Synthesized Piano | Alien Chatter | Fur Elise | Ave Maria |
| Synthesized Bell | Falling Crystals | Bach Minuet in Gmaj | Grandfather's Clock |

| Type-F | ype-F (Japan Only) | | | | | | | |
|------------------------------|------------------------|-------------------------------|--------------------------|--------------------------------|--|--|--|--|
| Beep (slow intermittent) | Spring Melody | A Maiden's Prayer | Quiet Lakeside | BANZAI SUKIDE YOKATTA | | | | |
| Stutter (rapid intermittent) | Game Intermission | Bach Minuet in Gmaj | The Music Man | NAMONAKI UTA | | | | |
| Bell (clear high-pitch) | Jalopy Horn | Annie Laurie | Spanish Romance | SOUSEINO AKUERION | | | | |
| Yelp (rapid siren) | ET Doorbell | London Bridge is falling down | Katyusha | MAMBO NO 5 | | | | |
| Rapid Hi-Lo | RR-crossing | Holdiridia | Ave Maria | The Parade of the Tin Soldiers | | | | |
| Melody Chime | Digital Train Whistle | Mary had a little Lamb | Grandfather's Clock | Turkey in the Straw | | | | |
| Synthesized Piano | Train Ride | The Camptown Races | RHYTHM AND POLICE | Aka tombo | | | | |
| Synthesized Bell | Starting Notice Chime1 | Cuckoo Song | ZANKOKUNA TENSHINO TEEZE | Funiculi, Funicula | | | | |
| Stutter + Bell | Starting Notice Chime2 | Village Blacksmith | MAJINGAA ZETTO | Furusato | | | | |
| Melody Chime | Starting Notice Chime3 | On the Bridge of Avignon | HATARAKU KURUMA | Beautiful Dreamer | | | | |
| Chime | Ending Notice Chime1 | Daydream Believer | NINGENTTE IINA | JOLLY HOLIDAY | | | | |
| Call Sign | Ending Notice Chime2 | Amaryllis | ROBINSON | | | | | |
| Galactic Hovercraft | Fur Elise | Mozart Symphony No. 40 | WORLD FOOTBALL ANTHEM | | | | | |

| Type-G | | | | (Worldwide) |
|------------------------------|---------------------|-------------------------------|--------------------------------------|-----------------------------|
| Beep (slow intermittent) | Galloping Hi-Lo | ET Doorbell | Mozart Symphony No. 40 | Polka Tramblanka |
| Stutter (rapid intermittent) | Alien Chatter | RR-crossing | Ave Maria | O Vreneli |
| Bell (clear high-pitch) | Falling Crystals | Starting Notice Chime1 | Grandfather's Clock | KAERUNO GASSHOU |
| Yelp (rapid siren) | Inverted Reveille | Starting Notice Chime2 | The Parade of the Tin Soldiers | El Condor Pasa (If I Could) |
| Rapid Hi-Lo | Galactic Motor | Ending Notice Chime1 | If You're Happy and You Know It | Hungarian Dance No.5 |
| Melody Chime | Ringing Phone | Ending Notice Chime2 | Flea Waltz | William Tell Overture |
| Synthesized Piano | Two Tone | Fur Elise | Turkey in the Straw | Pomp and Circumstance |
| Synthesized Bell | Alarm Clock | Bach Minuet in Gmaj | The Battle Hymn of the Republic | Comedians' Galop |
| Stutter + Bell | Ringing Hi-Lo | Annie Laurie | J'ai perdu le do de ma clarinette | Nedelka |
| Melody Chime | Galactic Hovercraft | London Bridge is falling down | Can-can | Moonlight Serenade |
| Chime | Spring Melody | Mary had a little Lamb | Radetzky March | WAREWA UMINO KO |
| Call Sign | Game Intermission | The Camptown Races | Funiculi, Funicula | |
| Train Ride | Jalopy Horn | Amaryllis | Csikos Post | |

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| Model | Bulb No. | Ratings | Part No. | Model | Bulb No. | Ratings |
|-------------|----------|-----------------------------------|---------------|------------------------|----------|------------------------------|
| A | 1 | 12V 35W | D01203501-F1 | Vibration Resistant | 39 | 28V 11W |
| RP35/BA15S | 2 | 24V 35W | D02403501-F1 | | 40 | 110V 12V |
| | 5 | Ratings 12V 35W 24V 35W 48V 35W | D04803502-F1 | T20/BA15D | 41 | 250V 11V |
| RP35/BA15D | | | | | 72 | 127 2377 |
| | 8 | 6V 3W | D00600303-F1 | | 43 | 24V 25W |
| | 9 | 12V 10W 24V 10W | D01201003A-F1 | S25/BA15S | | |
| | 11 | 48V 10W | D02401003A-F1 | (Vibration Resistant | | |
| C10/DA150 | 12 | 12V 5W | D01200503A-F1 | | | |
| G18/BA15S | 13 | 30V 10W | D03001006A-F1 | | 50 | 28V 20W |
| | 14 | 110V 10W | D11001006A-F1 | | | |
| | 15 | 220V 10W | D22001006A-F1 | | | |
| | 16 | 110V 15W | D11001506A-F1 | T20/BA15D | | |
| T20/E12 | 17 | 220V 15W | D22001506A-F1 | Vibration Resistant | | |
| | 18 | 12V 6W | D01200604-F1 | | 51 | 110V 20V |
| G14/BA9S | 19 | 24V 6W | D02400604-F1 | ٥ | 53 | 250V 20V |
| | 22 | 110V 3W | D11000307-F1 | T20/BA15D | | |
| | 27 | 12V 0.11A | D012/1107-F1 | | 54 | 12V 15W |
| T10/E10 | 28 | 24V 0.11A | D024/1107-F1 | C10/DA1ES | 55 | 24V 20W |
| | 36 | 120V 40W (Vibration Resistant) | D12004024-F1 | G18/BA15S | | |
| DD25 /DA15D | 37 | 220V 30W | D22003024-F1 | | 9 | AC12V (50/6 1.7W (at 13.5 |
| RP35/BA15D | | | | | | |

^{*} Some bulbs may not be available due to part or product discontinuation without prior notice.

| Model | Bulb No. | Ratings | Part No. |
|-----------------------------------|----------|--------------------------------------|---------------|
| Vibration Resistant | 39 | 28V 11W | D02801111-F1 |
| | 40 | 110V 12W | D11001211-F1 |
| T20/BA15D | 41 | 250V 11W | D25001111-F1 |
| | 42 | 12V 23W | D01202305-F1 |
| \$25/BA15S | 43 | 24V 25W | D02402505-F1 |
| Vibration Resistant T20/BA15D | 50 | 28V 20W | D02802011-F1 |
| Vibration Resistant | 51 | 110V 20W | D11002011-F1 |
| T20/BA15D | 53 | 250V 20W | D25002011-F1 |
| | 54 | 12V 15W | D012001503-F1 |
| G18/BA15S | 55 | 24V 20W | D02402003-F1 |
| | | | |
| | 9 | AC12V (50/60Hz) 1.7W (at 13.5VAC) | DEB-15SBA-CL |



UL Certification Model

Model Comparison Table

The "UL Registration Model", which has acquired the UL certification, is printed on the model's name plate as is for our company product. The "UL Registration Model" does not show the tier number of the actual model. Therefore, please refer to the following model comparison table when choosing the model you need. When making an order, please verify the detailed information, such as product color, etc., which is listed on the page for each product. (As of June, 30, 2011)

| for each product. (A | As of June, 30, 2011) | - | | | |
|----------------------------|------------------------------|------------------------|-----------------------|----------------------|-----------------------|
| Model | UL Registration Model | Model | UL Registration Model | Model | UL Registration Model |
| ME-102A | ME02A | LCE-1M2AFBW | LCEM2AFBW | LE-102FBW | LE02FBW |
| ME-202A | ME02A | LCE-2M2AFBW | LCEM2AFBW | LE-202FBW | LE02FBW |
| ME-302A | ME02A | LCE-3M2AFBW | LCEM2AFBW | LE-302FBW | LE02FBW |
| ME-402A | ME02A | LCE-4M2AFBW | LCEM2AFBW | LE-402FBW | LE02FBW |
| ME-502A | ME02A | LCE-5M2AFBW | LCEM2AFBW | LE-502FBW | LE02FBW |
| MES-102A | MES02A | LCS-102A | LCS02A | LFH-12 | LFH-12 |
| MES-202A | MES02A | LCS-202A | LCS02A | LFH-24 | LFH-24 |
| MES-302A | MES02A | LCS-302A | LCS02A | LFH-48 | LFH-48 |
| MES-402A | MES02A | LCS-402A | LCS02A | LFH-M2 | LFH-M2 |
| MES-502A | MES02A | LCS-502A | LCS02A | LME-102 | LME02 |
| MP-102 | MP02 | LCS-102AK | LCS02AK | LME-202 | LME02 |
| MP-202 | MP02 | LCS-202AK | LCS02AK | LME-302 | LME02 |
| MP-302 | MP02 | LCS-302AK | LCS02AK | LME-402 | LME02 |
| MP-402 | MP02 | LCS-402AK | LCS02AK | LME-502 | LME02 |
| MP-502 | MP02 | LCS-502AK | LCS02AK | LME-102L | LME02L |
| MPS-102 | MPS02 | LES-102A | LES02A | LME-202L | LME02L |
| MPS-202 | MPS02 | LES-202A | LES02A | LME-302L | LME02L |
| MPS-302 | MPS02 | LES-302A | LES02A | LME-402L | LME02L |
| MPS-402 | MPS02 | LES-402A | LES02A | LME-502L | LME- 02L |
| MPS-502 | | LES-402A LES-502A | LES02A | LME-102W | LME02W |
| LCE-102A | MPS02 LCE- 02A | LES-302A LES-102AW | LES02AW | LME-102W | LME02W |
| LCE-102A LCE-202A | | | LES02AW | | |
| | LCE02A | LES-202AW | | LME-302W | LME02W |
| LCE-302A | LCE02A | LES-302AW | LES02AW | LME-402W | LME02W |
| LCE-402A | LCE02A | LES-402AW | LES02AW | LME-502W | LME02W |
| LCE-502A | LCE02A | LES-502AW | LES02AW | LME-102FB | LME02FB |
| LCE-1M2A | LCEM2A | LE-101P | LE01P | LME-202FB | LME02FB |
| LCE-2M2A | LCEM2A | LE-201P | LE01P | LME-302FB | LME02FB |
| LCE-3M2A | LCEM2A | LE-301P | LE01P | LME-402FB | LME02FB |
| LCE-4M2A | LCEM2A | LE-401P | LE01P | LME-502FB | LME02FB |
| LCE-5M2A | LCEM2A | LE-501P | LE01P | LME-102FBL | LME02FBL |
| LCE-102AW | LCE02AW | LE-102P | LE02P | LME-202FBL | LME02FBL |
| LCE-202AW | LCE02AW | LE-202P | LE02P | LME-302FBL | LME02FBL |
| LCE-302AW | LCE02AW | LE-302P | LE02P | LME-402FBL | LME02FBL |
| LCE-402AW | LCE02AW | LE-402P | LE02P | LME-502FBL | LME02FBL |
| LCE-502AW | LCE02AW | LE-502P | LE02P | LME-102FBK | LME02FBK |
| LCE-1M2AW | LCEM2AW | LE-101W | LE01W | LME-202FBK | LME02FBK |
| LCE-2M2AW | LCEM2AW | LE-201W | LE01W | LME-302FBK | LME02FBK |
| LCE-3M2AW | LCEM2AW | LE-301W | LE01W | LME-402FBK | LME02FBK |
| LCE-4M2AW | LCEM2AW | LE-401W | LE01W | LME-502FBK | LME02FBK |
| LCE-5M2AW | LCEM2AW | LE-501W | LE01W | LME-102FBW | LME02FBW |
| LCE-102AFB | LCE02AFB | LE-102W | LE02W | LME-202FBW | LME02FBW |
| LCE-202AFB | LCE02AFB | LE-202W | LE02W | LME-302FBW | LME02FBW |
| LCE-302AFB | LCE02AFB | LE-302W | LE02W | LME-402FBW | LME02FBW |
| LCE-402AFB | LCE02AFB | LE-402W | LE02W | LME-502FBW | LME02FBW |
| LCE-502AFB | LCE02AFB | LE-502W | LE02W | LME-112 | LME12 |
| LCE-1M2AFB | LCEM2AFB | LE-101FBP | LE01FBP | LME-212 | LME12 |
| LCE-2M2AFB | LCEM2AFB | LE-201FBP | LE01FBP | LME-312 | LME12 |
| LCE-3M2AFB | LCEM2AFB | LE-301FBP | LE01FBP | LME-412 | LME12 |
| LCE-4M2AFB | LCEM2AFB | LE-401FBP | LE01FBP | LME-512 | LME12 |
| LCE-5M2AFB | LCEM2AFB | LE-501FBP | LE01FBP | LME-112L | LME12L |
| LCE-102AFBK | LCE02AFBK | LE-102FBP | LE02FBP | LME-212L | LME12L |
| LCE-202AFBK | LCE02AFBK | LE-202FBP | LE02FBP | LME-312L | LME12L |
| LCE-302AFBK | LCE02AFBK | LE-302FBP | LE02FBP | LME-412L | LME12L |
| LCE-402AFBK | LCE02AFBK | LE-402FBP | LE02FBP | LME-512L | LME12L |
| LCE-502AFBK | LCE02AFBK | LE-502FBP | LE02FBP | LME-112W | LME12W |
| LCE-102AFBK | LCEM2AFBK | LE-101FBW | LE01FBW | LME-212W | LME12W |
| LCE-202AFBK | LCEM2AFBK | LE-201FBW | LE01FBW | LME-312W | LME12W |
| | | | LE01FBW | | LME12W |
| I CE-302AFRK | II(F- MIJAFRK | | | | |
| LCE-302AFBK LCE-402AFBK | LCEM2AFBK LCEM2AFBK | LE-301FBW LE-401FBW | LE01FBW | LME-412W LME-512W | LME12W |

| Model | UL Registration Mod | del Model | UL Registration Model | Model | UL Registration Model |
|------------------------|---------------------|--------------------|-----------------------|---------------|-----------------------|
| LME-112FB | LME12FB | LME-102UW | LME02UW | LME-112UFBK | LME12UFBK |
| LME-212FB | LME12FB | LME-202UW | LME- 02UW | LME-212UFBK | LME12UFBK |
| LME-312FB | LME12FB | LME-302UW | LME02UW | LME-312UFBK | LME12UFBK |
| LME-412FB | LME12FB | LME-402UW | LME02UW | LME-412UFBK | LME12UFBK |
| LME-512FB | LME12FB | LME-502UW | LME02UW | LME-512UFBK | LME12UFBK |
| LME-112FBL | LME12FBL | LME-102UFB | LME02UFB | LME-112UFBW | LME12UFBW |
| LME-212FBL | LME12FBL | LME-202UFB | LME02UFB | LME-212UFBW | LME12UFBW |
| LME-312FBL | LME12FBL | LME-302UFB | LME02UFB | LME-312UFBW | LME12UFBW |
| LME-412FBL | LME12FBL | LME-402UFB | LME02UFB | LME-412UFBW | LME12UFBW |
| LME-512FBL | LME12FBL | LME-502UFB | LME02UFB | LME-512UFBW | LME12UFBW |
| LME-112FBK | LME12FBK | LME-102UFBL | LME02UFBL | LME-123U | LME23 |
| LME-212FBK | LME12FBK | LME-202UFBL | LME02UFBL | LME-223U | LME23 |
| LME-312FBK | LME12FBK | LME-302UFBL | LME02UFBL | LME-323U | LME23 |
| LME-412FBK | LME12FBK | LME-402UFBL | LME02UFBL | LME-423U | LME23 |
| LME-512FBK | LME12FBK | LME-502UFBL | LME02UFBL | LME-523U | LME23 |
| LME-112FBW | LME12FBW | LME-102UFBK | LME02UFBK | LME-123UL | LME23UL |
| LME-212FBW | LME12FBW | LME-202UFBK | LME02UFBK | LME-223UL | LME23UL |
| LME-312FBW | LME12FBW | LME-302UFBK | LME- 02UFBK | LME-323UL | LME23UL |
| LME-412FBW | LME- 12FBW | LME-402UFBK | LME02UFBK | LME-423UL | LME23UL |
| | | | | LME-523UL | LME23UL |
| LME-512FBW LME-123 | LME12FBW | LME-502UFBK | LME02UFBK | LME-123UW | LME23UW |
| LME-223 | | LME-102UFBW | LME02UFBW | | |
| | LME23 | LME-202UFBW | LME02UFBW | LME-223UW | LME23UW |
| LME-323 | LME23 | LME-302UFBW | LME02UFBW | LME-323UW | LME23UW |
| LME-423 | LME23 | LME-402UFBW | LME02UFBW | LME-423UW | LME23UW |
| LME-523 | LME23 | LME-502UFBW | LME02UFBW | LME-523UW | LME23UW |
| LME-123L | LME23L | LME-112U | LME12U | LME-123UFB | LME23UFB |
| LME-223L | LME23L | LME-212U | LME12U | LME-223UFB | LME23UFB |
| LME-323L | LME23L | LME-312U | LME12U | LME-323UFB | LME23UFB |
| LME-423L | LME23L | LME-412U | LME12U | LME-423UFB | LME23UFB |
| LME-523L | LME23L | LME-512U | LME12U | LME-523UFB | LME23UFB |
| LME-123W | LME23W | LME-112UL | LME12UL | LME-123UFBL | LME23UFBL |
| LME-223W | LME23W | LME-212UL | LME12UL | LME-223UFBL | LME23UFBL |
| LME-323W | LME23W | LME-312UL | LME12UL | LME-323UFBL | LME23UFBL |
| LME-423W | LME23W | LME-412UL | LME12UL | LME-423UFBL | LME23UFBL |
| LME-523W | LME23W | LME-512UL | LME12UL | LME-523UFBL | LME23UFBL |
| LME-123FB | LME23FB | LME-112UW | LME12UW | LME-123UFBK | LME23UFBK |
| LME-223FB | LME23FB | LME-212UW | LME12UW | LME-223UFBK | LME23UFBK |
| LME-323FB | LME23FB | LME-312UW | LME12UW | LME-323UFBK | LME23UFBK |
| LME-423FB | LME23FB | LME-412UW | LME12UW | LME-423UFBK | LME23UFBK |
| LME-523FB | LME23FB | LME-512UW | LME12UW | LME-523UFBK | LME23UFBK |
| LME-123FBL | LME23FBL | LME-112U | LME12U | LME-123UFBW | LME23UFBW |
| LME-223FBL | LME23FBL | LME-212U | LME12U | LME-223UFBW | LME23UFBW |
| LME-323FBL | LME23FBL | LME-312U | LME12U | LME-323UFBW | LME23UFBW |
| LME-423FBL | LME23FBL | LME-412U | LME12U | LME-423UFBW | LME23UFBW |
| LME-523FBL | LME23FBL | LME-512U | LME12U | LME-523UFBW | LME23UFBW |
| LME-123FBK | LME23FBK | LME-112UL | LME12UL | LME-102N | LME02N |
| LME-223FBK | LME23FBK | LME-212UL | LME12UL | LME-202N | LME02N |
| LME-323FBK | LME23FBK | LME-312UL | LME12UL | LME-302N | LME02N |
| LME-423FBK | LME23FBK | LME-412UL | LME12UL | LME-402N | LME02N |
| LME-523FBK | LME23FBK | LME-512UL | LME12UL | LME-502N | LME02N |
| LME-123FBW | LME23FBW | LME-112UW | LME12UW | LME-102NL | LME02NL |
| LME-223FBW | LME23FBW | LME-212UW | LME12UW | LME-202NL | LME02NL |
| LME-323FBW | LME23FBW | LME-312UW | LME12UW | LME-302NL | LME02NL |
| LME-423FBW | LME23FBW | LME-412UW | LME12UW | LME-402NL | LME02NL |
| LME-523FBW | LME23FBW | LME-512UW | LME12UW | LME-502NL | LME02NL |
| LME-102U | LME02U | LME-112UFB | LME12UFB | LME-102NW | LME02NW |
| LME-202U | LME02U | LME-212UFB | LME12UFB | LME-202NW | LME02NW |
| LME-302U | LME02U | LME-312UFB | LME12UFB | LME-302NW | LME02NW |
| LME-402U | LME02U | LME-412UFB | LME12UFB | LME-402NW | LME02NW |
| LME-502U | LME02U | LME-512UFB | LME12UFB | LME-502NW | LME02NW |
| LME-102UL | LME02UL | LME-112UFBL | LME12UFBL | LME-102NFB | LME02NFB |
| | | LME-212UFBL | LME12UFBL | LME-202NFB | LME02NFB |
| LME-202UL | LME02UL | I ILIVIL Z IZOI DL | 122 2 0 . 5 2 | =:::= ===:::= | |
| LME-202UL LME-302UL | LME02UL | LME-312UFBL | LME12UFBL | LME-302NFB | LME02NFB |
| | | | | | |

UL Certification Model

Model Comparison Table

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| for each product. (As | 3 01 34110, 30, 2011) | <u></u> | | | |
|-----------------------|-----------------------|---------------|-----------------------|------------|-----------------------|
| Model | UL Registration Model | Model | UL Registration Model | Model | UL Registration Model |
| LME-102NFBL | LME02NFBL | LME-123NW | LME23NW | LMS-102K | LMS02K |
| LME-202NFBL | LME02NFBL | LME-223NW | LME23NW | LMS-202K | LMS02K |
| LME-302NFBL | LME02NFBL | LME-323NW | LME23NW | LMS-302K | LMS02K |
| LME-402NFBL | LME02NFBL | LME-423NW | LME23NW | LMS-402K | LMS02K |
| LME-502NFBL | LME02NFBL | LME-523NW | LME- 23NW | LMS-502K | LMS02K |
| LME-102NFBK | LME02NFBK | LME-123NFB | LME23NFB | LHE-102A | LHE02A |
| LME-202NFBK | LME02NFBK | LME-223NFB | LME23NFB | LHE-202A | LHE02A |
| LME-302NFBK | LME02NFBK | LME-323NFB | LME23NFB | LHE-302A | LHE02A |
| LME-402NFBK | LME02NFBK | LME-423NFB | LME23NFB | LHE-402A | LHE02A |
| LME-502NFBK | LME02NFBK | LME-523NFB | LME23NFB | LHE-502A | LHE02A |
| LME-102NFBW | LME- 02NFBW | LME-123NFBL | LME23NFBL | LHE-102AFB | LHE02AFB |
| LME-202NFBW | LME02NFBW | LME-223NFBL | LME23NFBL | LHE-202AFB | LHE02AFB |
| LME-302NFBW | LME02NFBW | LME-323NFBL | LME23NFBL | LHE-302AFB | LHE02AFB |
| LME-402NFBW | LME02NFBW | LME-423NFBL | LME23NFBL | LHE-402AFB | LHE02AFB |
| LME-502NFBW | LME02NFBW | LME-523NFBL | LME23NFBL | LHE-502AFB | LHE02AFB |
| | | | | | |
| LME-112N | LME12N | LME-123NFBK | LME23NFBK | LHE-112A | LHE12A |
| LME-212N | LME12N | LME-223NFBK | LME23NFBK | LHE-212A | LHE12A |
| LME-312N | LME12N | LME-323NFBK | LME23NFBK | LHE-312A | LHE12A |
| LME-412N | LME12N | LME-423NFBK | LME23NFBK | LHE-412A | LHE12A |
| LME-512N | LME12N | LME-523NFBK | LME23NFBK | LHE-512A | LHE12A |
| LME-112NL | LME12NL | LME-123NFBW | LME23NFBW | LHE-112AFB | LHE12AFB |
| LME-212NL | LME12NL | LME-223NFBW | LME23NFBW | LHE-212AFB | LHE12AFB |
| LME-312NL | LME12NL | LME-323NFBW | LME23NFBW | LHE-312AFB | LHE12AFB |
| LME-412NL | LME12NL | LME-423NFBW | LME23NFBW | LHE-412AFB | LHE12AFB |
| LME-512NL | LME12NL | LME-523NFBW | LME23NFBW | LHE-512AFB | LHE12AFB |
| LME-112NW | LME12NW | LME-102-S □ | LME02-S | LHE-123A | LHE23A |
| LME-212NW | LME12NW | LME-102-Q □ | LME02-Q | LHE-223A | LHE23A |
| LME-312NW | LME12NW | LME-102W-S | LME02W-S | LHE-323A | LHE23A |
| LME-412NW | LME12NW | LME-102W-Q □ | LME02W-Q | LHE-423A | LHE23A |
| LME-512NW | LME12NW | LME-102FB-S □ | LME02FB-S | LHE-523A | LHE23A |
| LME-112NFB | LME12NFB | LME-102FB-Q □ | LME02FB-Q | LHE-123AFB | LHE23AFB |
| LME-212NFB | LME12NFB | LME-102FBW-S | LME02FBW-S | LHE-223AFB | LHE23AFB |
| LME-312NFB | LME12NFB | LME-102FBW-Q | LME02FBW-Q | LHE-323AFB | LHE23AFB |
| LME-412NFB | LME12NFB | LME-112-S 🗌 | LME12-S | LHE-423AFB | LHE23AFB |
| LME-512NFB | LME12NFB | LME-112-Q □ | LME12-Q | LHE-523AFB | LHE23AFB |
| LME-112NFBL | LME12NFBL | LME-112W-S | LME12W-S | WEP-302 | WEP02 |
| LME-212NFBL | LME12NFBL | LME-112W-Q □ | LME12W-Q | WEP-402 | WEP02 |
| LME-312NFBL | LME12NFBL | LME-112FB-S □ | LME12FB-S | WEP-502 | WEP02 |
| LME-412NFBL | LME12NFBL | LME-112FB-Q 🗌 | LME12FB-Q | WE-302 | WE02 |
| LME-512NFBL | LME12NFBL | LME-102FBW-S | LME02FBW-S | WE-402 | WE02 |
| LME-112NFBK | LME12NFBK | LME-112FBW-Q | LME12FBW-Q | WE-502 | WE02 |
| LME-212NFBK | LME12NFBK | LME-123-S 🗌 | LME23-S | WEP-302FB | WEP- 02FB |
| LME-312NFBK | LME12NFBK | LME-123-Q □ | LME23-Q | WEP-402FB | WEP02FB |
| LME-412NFBK | LME12NFBK | LME-123W-S | LME23W-S | WEP-502FB | WEP02FB |
| LME-512NFBK | LME12NFBK | LME-123W-Q | LME23W-Q | WE-302FB | WE02FB |
| LME-112NFBW | LME12NFBW | LME-123FB-S | LME23FB-S | WE-402FB | WE02FB |
| LME-212NFBW | LME12NFBW | LME-123FB-Q | LME23FB-Q | WE-502FB | WE02FB |
| LME-312NFBW | LME12NFBW | LME-123FBW-S | LME23FBW-S | WME-202A | WME02A |
| LME-412NFBW | LME12NFBW | LME-123FBW-Q | LME23FBW-Q | WME-302A | WME02A |
| LME-512NFBW | LME12NFBW | LMS-102 | LMS02 | WME-402A | WME02A |
| LME-123N | LME23N | LMS-202 | LMS02 | WME-502A | WME02A |
| LME-223N | LME23N | LMS-302 | LMS02 | WME-2M2A | WMEM2A |
| | | | | | |
| LME-323N | LME23N | LMS-402 | LMS02 | WME-3M2A | WMEM2A |
| LME-423N | LME23N | LMS-502 | LMS02 | WME-4M2A | WMEM2A |
| LME-523N | LME23N | LMS-102L | LMS02L | WME-5M2A | WMEM2A |
| LME-123NL | LME23NL | LMS-202L | LMS02L | WME-202AFB | WME02AFB |
| LME-223NL | LME23NL | LMS-302L | LMS02L | WME-302AFB | WME02AFB |
| LME-323NL | LME23NL | LMS-402L | LMS02L | WME-402AFB | WME02AFB |
| LME-423NL | LME23NL | LMS-502L | LMS02L | WME-502AFB | WME02AFB |
| LME-523NL | LME23NL | _ | _ | _ | _ |

| Model | III Degistration Model | Model | UL Registration Model | Model | UL Registration Model |
|--------------|-----------------------------------|--|-----------------------|----------------|-----------------------|
| WME-2M2AFB | UL Registration Model WMEM2AFB | Model | OL Registration Model | Miodel | OL Registration Model |
| | | | | | |
| WME-3M2AFB | WMEM2AFB | | | | |
| WME-4M2AFB | WMEM2AFB | | | | |
| WME-5M2AFB | WMEM2AFB | | | | |
| LKEH-102FAUL | LKEH02FAUL | | | | |
| LKEH-202FAUL | LKEH02FAUL | | | | |
| LKEH-302FAUL | LKEH02FAUL | | | | |
| LKEH-402FAUL | LKEH02FAUL | | | | |
| LKEH-102FCUL | LKEH02FCUL | | | | |
| LKEH-202FCUL | LKEH02FCUL | | | | |
| LKEH-302FCUL | LKEH02FCUL | | | | |
| LKEH-402FCUL | LKEH02FCUL | | | | |
| LKEH-102FDUL | LKEH02FDUL | | | | |
| LKEH-202FDUL | LKEH02FDUL | | | | |
| LKEH-302FDUL | LKEH02FDUL | | | | |
| LKEH-402FDUL | LKEH02FDUL | | | | |
| LKEH-102FEUL | LKEH02FEUL | | | | |
| LKEH-202FEUL | LKEH02FEUL | | | | |
| LKEH-302FEUL | LKEH02FEUL | | | | |
| LKEH-402FEUL | LKEH02FEUL | | | | |
| LKEH-102FVUL | LKEH02FVUL | | | | |
| LKEH-202FVUL | LKEH02FVUL | | | | |
| LKEH-302FVUL | LKEH02FVUL | | | | |
| LKEH-402FVUL | LKEH02FVUL | | | | |
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