LS7

Signal Tower

RoHS

LED

2 Alarm Sounds (FB Type)

90dB at 1m (FB Type)

IP65 (B Type:IP54)

Φ70

NPN/PNP Open-collector

Off-white Color Body without Buzzer

Off-white Color Body with Buzzer

Black Color Body without Buzzer

Black Color Body with Buzzer

Silver Color Body without Buzzer

Silver Color Body with Buzzer

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

How to Order

LED Signal Tower LS7-①02②③④W⑤-⑥

Ex.: LS7-302WC-RYGNN	Body Color: Off-white	Lighting: Illumination
	Alarm: None	Wiring: M12 Connector
	LED Colors: Red, Amber, Green, (Blank), (Blank)	

① No. of LIghting Units
3:3 Tiers 5:5 Tiers

② Body Color
Blank: Off-white
D: Dark Gray
S: Silver

③ Lighting
Blank: Illumination Only
B: Illumination/Flashing

④ Alarm
Blank: No Alarm
B: Alarm

⑤ Wiring
C: M12 Connector
H: Lead Wires*

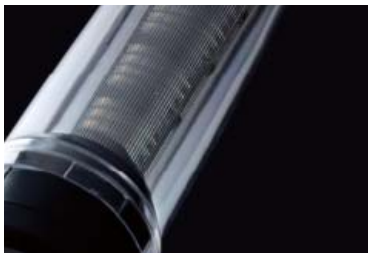
⑥ LED Color
R: Red
Y: Amber
G:Green
B:Blue
C: Clear/White
N:Blank

* F type models come with two alarms and are only available with Lead Wire and requires an 'FBWH' part no.
* C type models (M12 Connector type) are only available with a continous sound alarm.

Specifications

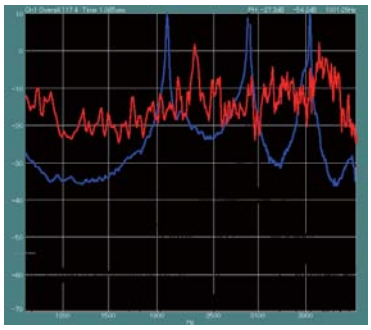
Model	Number of Lighting Units	Body Color	Rated Voltage	Mounting	Rated Current Consumption	Maximum Rated Current	Maximum Sound Pressure	Operating Temperature Range	Protection Rating	Mass: Lead-wire Type (H)		Mass: M12 Connector Type (C)	
										Illumination (No Mark)	Illumination/Flash/ 2 Alarms (FB)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

* IP67 available by special order



A smooth-surfaced body without any metal exposed

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.



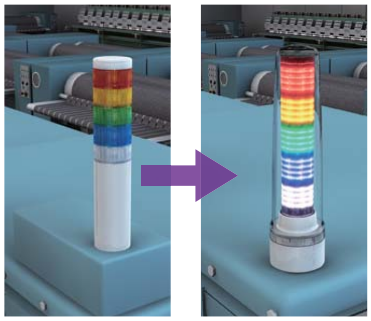
A sound heard throughout various environments

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 the M12 connector.

Speaker Horn (Alarm Type)

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

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



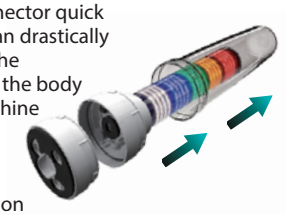
Easy attachment, no need for Relay Box

In addition to the conventional three-bolt installation, a two-bolt 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 Style

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.

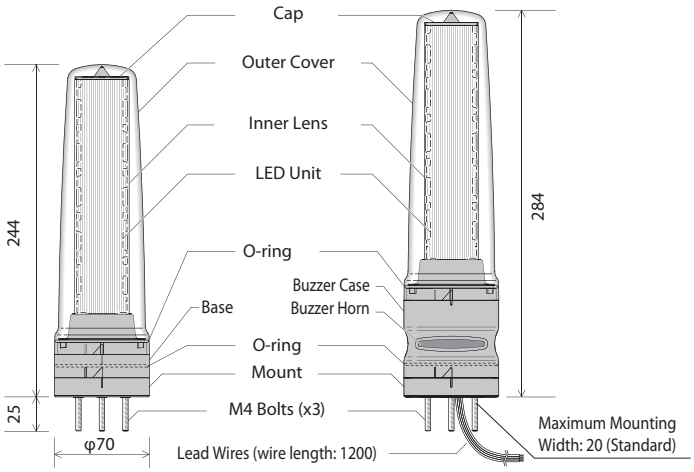
Remarkable display in ANY environment

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

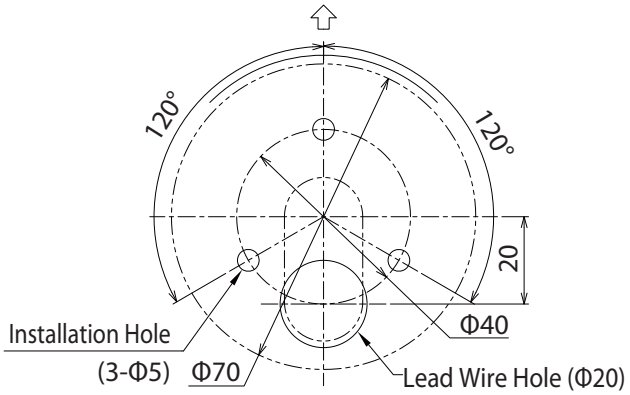
All-plastic Bracket

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.

Dimensions



Product Front (Buzzer Horn Direction)



Optional Parts

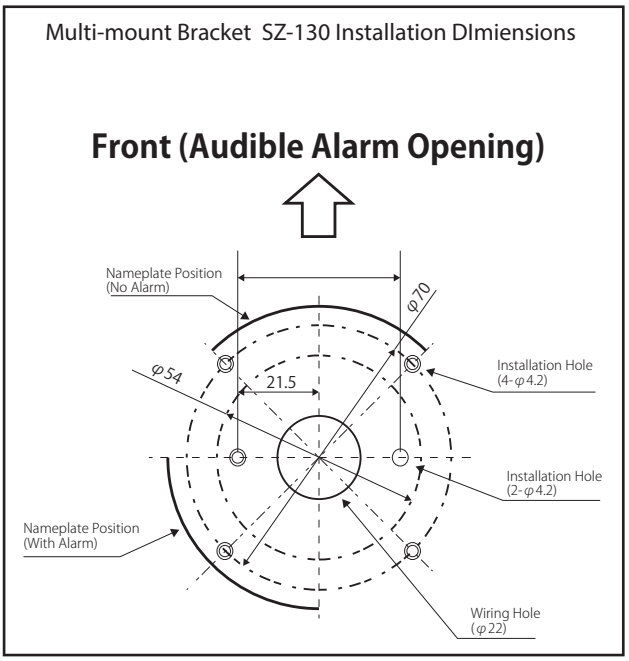
Like the body, the smooth-shaped platform bracket won't collect water or dust. Since no metal parts like screws and shafts are exposed, worries of food contamination can be put to rest in food processing.

Platform Bracket SZ-100

Wall Mounting Bracket SZ-110

Multi-mount Bracket SZ-130

Multi-mount Bracket SZ-130 Installation DImiensions



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.

Replacement Parts

Outer Cover for LS7*

Material: Polycarbonate

O-ring for LS7

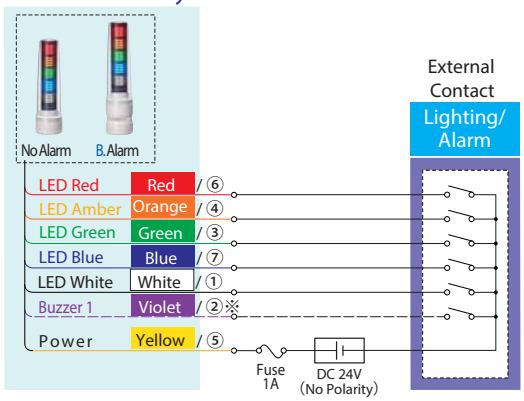
Material: Silicone

Mount Cover for LS7
(Accessory)

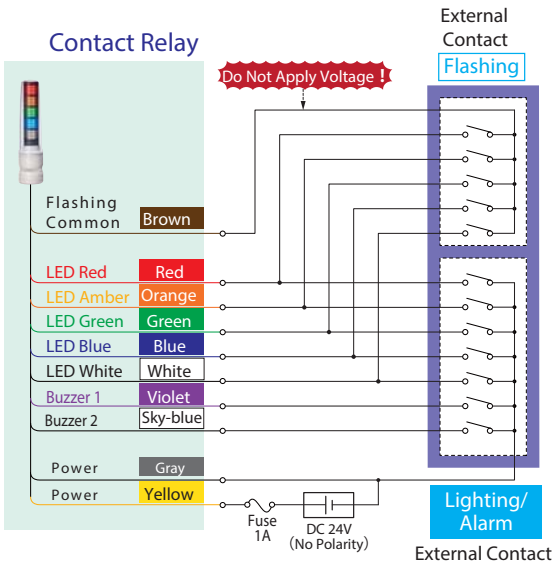
Material: Silicone

Wiring

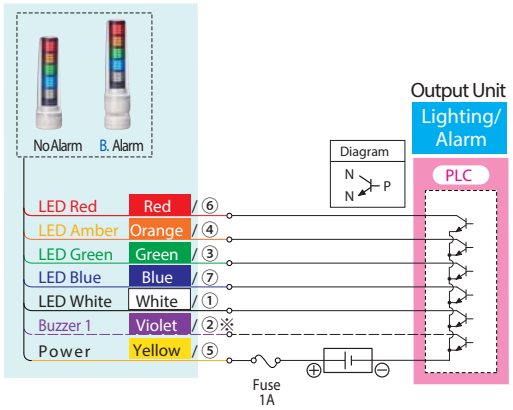
Contact Relay



Contact Relay



PLC (NPN Transistor)



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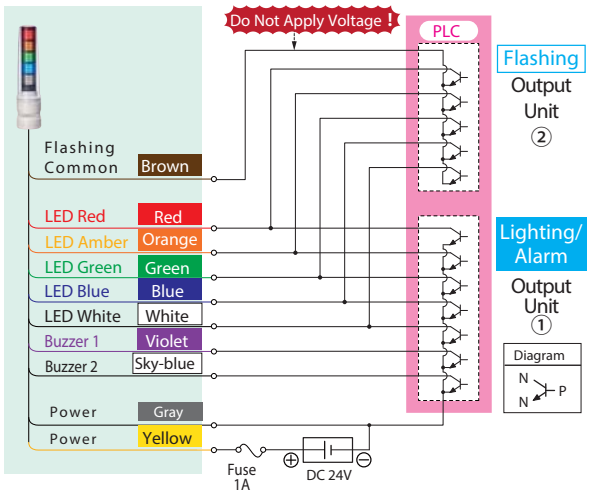
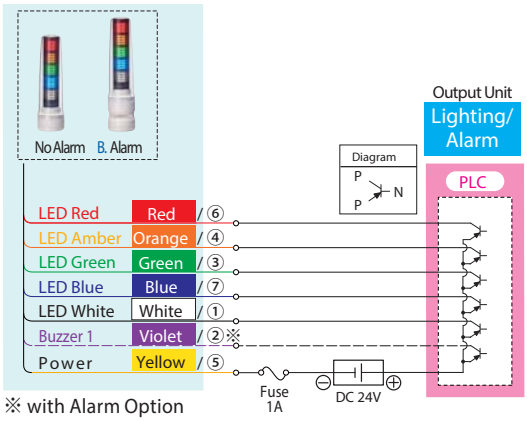
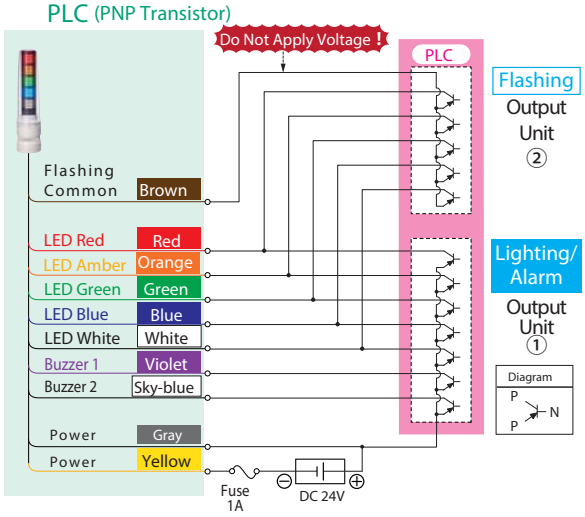


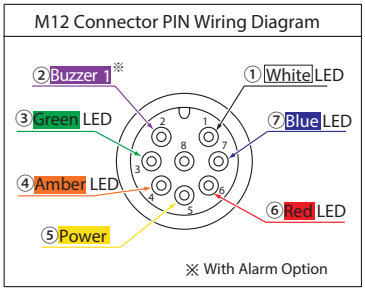
PLC (PNP Transistor)



※ with Alarm Option

PLC (PNP Transistor)





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.