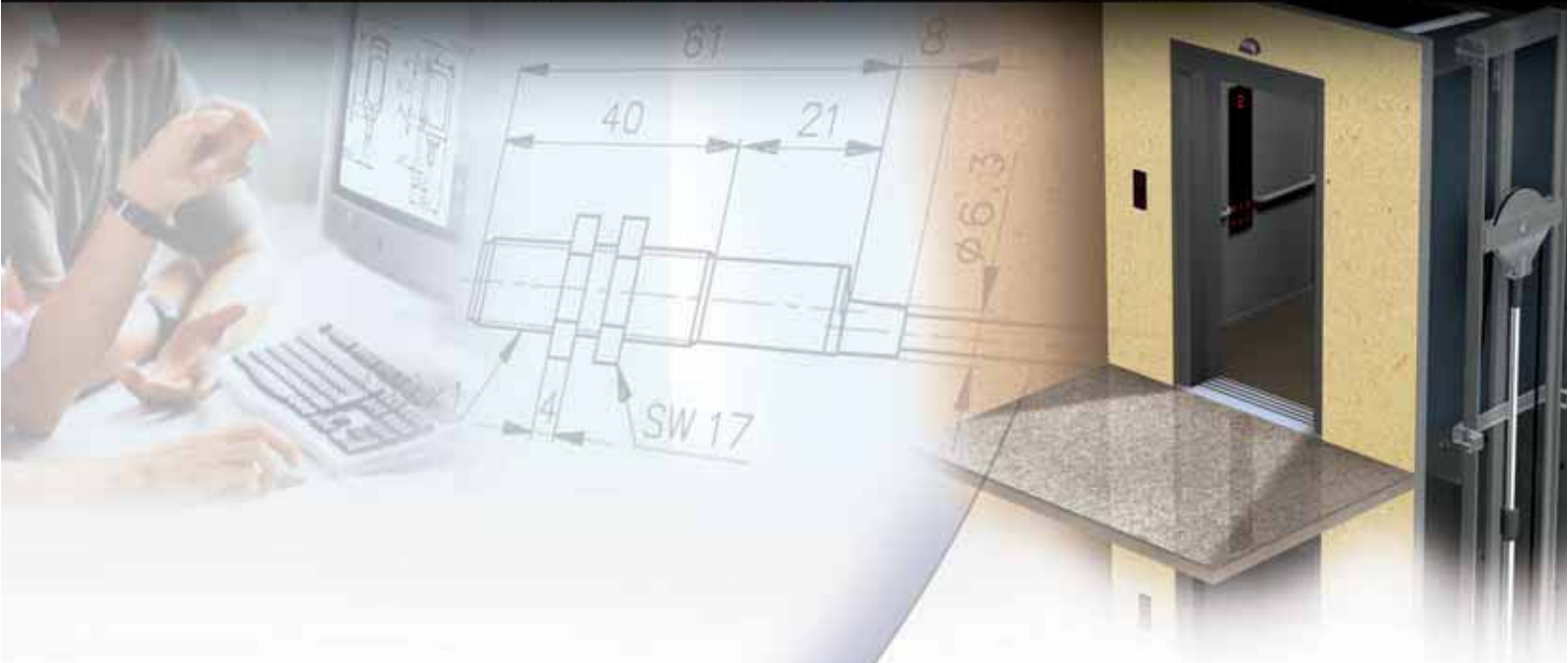


**CARLO GAVAZZI**  
Automation Components

**DISAI**  
Automatic Systems  
T. 962 448 450 [www.disai.net](http://www.disai.net)



*Solutions for the Elevator World*



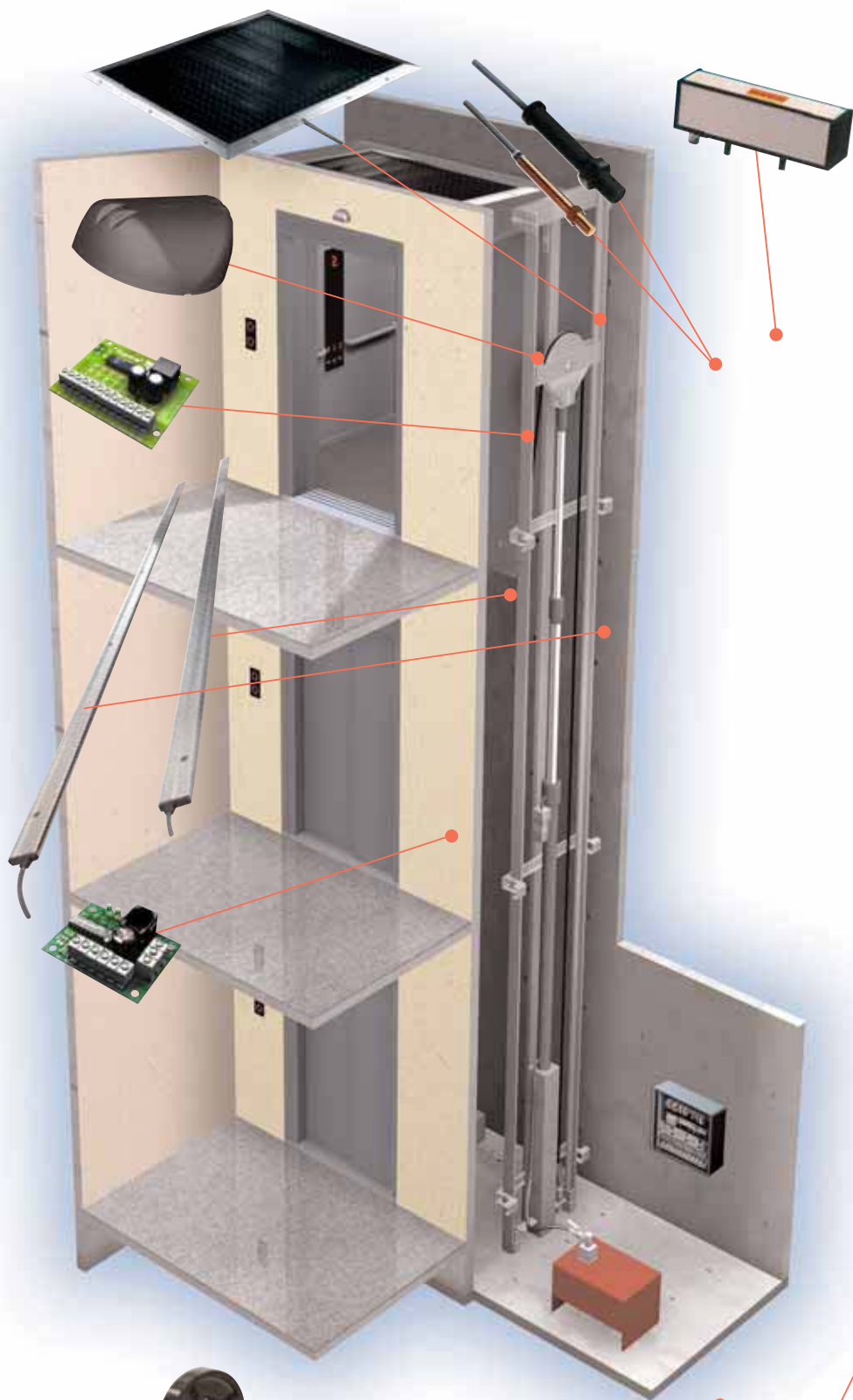


# *Components designed for Your requirements*

## **Carlo Gavazzi**

brings a 25-years- old expertise in Inductive, Magnetic Photoelectric and Ultrasonic Sensors, in Timers, PCB and Industrial Relays, Limit Switches and Soft Starters enabling us to match different requirements and to provide fully customized solutions.





**FMP/FS../S/SP.B.2**

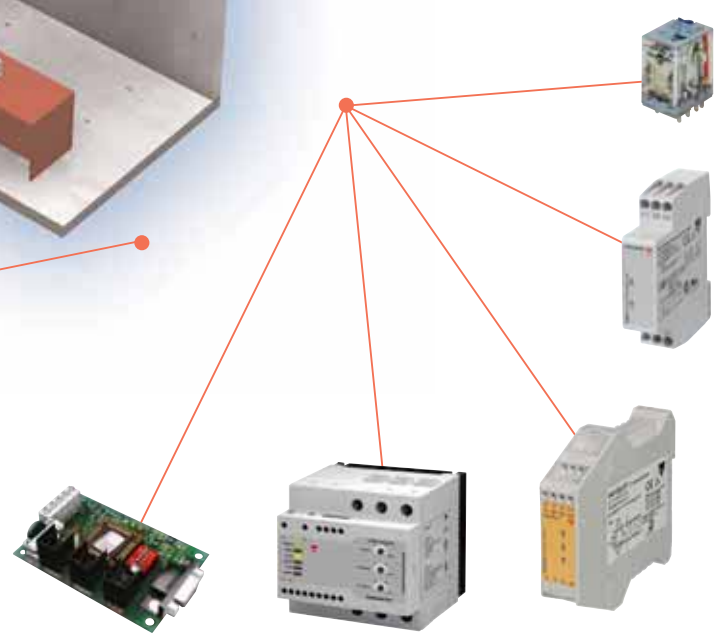
**MAIN FEATURES**

- Dimensions: M10, M12, M16 (FMP, FS)- Ø16 (FSLP)  
21,2x11,5x79 (S)  
24x25,5x85 (SP.B.2)
- Housing material: plastic or metallic
- Housing shape: cylindrical and /or rectangular
- Hermetically sealed and dipped in resin
- Degree of prot.: IP67
- Approvals/Marks: CE

**Proximity Magnetic Sensors**



One of the several applications.



# Our product range



PE12

## MAIN FEATURES

- Dimensions: Ø12x 26
- Stand alone sensor, no external amplifier needed
- Power supply: 10-30 VDC
- Output: NPN or PNP 100mA
- Sensing dist.: 15m
- Optical angle: Max ±5 degree
- Degree of protection: IP67
- Approvals/Marks: CE

Photoelectric Sensors



BFL Series

## MAIN FEATURES

- Dimensions: 2011x37,5x9,5
- Ambient light immunity: 100klux
- Operating distance: >4m
- Low current consumption
- PNP, NPN factory set output

Light Curtains



RAD-01 . .

## MAIN FEATURES

- Dimens: 118x80x53
- K-Band radar sensor compatible with all swinging and sliding automatic doors
- 3-D adjustable position of the sensor
- Microprocessor technology filters out possible weather condition interf.
- IR remote controller can be added for easy adjustment.

Motion Sensor

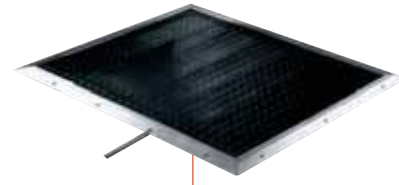


DPA51 . .

## MAIN FEATURES

- Dimensions: 81.5x17.5x67
- Phase sequence, total and partial phase loss monitoring relay
- DIN housing or plug-in
- 1 x SPDT relay
- Electrical life: >1x10<sup>5</sup> operations
- Power supply: 208-480 VAC
- Approvals/Marks: CE - UL - CSA

Monitoring Relay



SM . .

## MAIN FEATURES

- Customized dimens.
- Safety category 3 in conjunction with MT1-D or NT1/2-D safety relay according to EN 954-1
- Expected mechanical life of over one million cycles
- Mat integrity monit.
- Manual or automatic restart
- Slip-free covering
- Easy screw mount

Safety Mats

[www.carlogavazzi.com/ac](http://www.carlogavazzi.com/ac)

### Designed to Market Requirements

Dedicated applications engineering teams design special products upon request from the customer.

### Solution to Applications Challenges

The Carlo Gavazzi individual product ranges complement one another thereby offering the customer all the advantages of a synergistic range of products in terms of application and availability.

### Guaranteed reliability

Each product group is designed and manufactured in a center of excellence to assure that each individual products is the best in its field. Carlo Gavazzi products are subject to stringent quality tests to guarantee they exceed the performance we specify.

Visit our website for more details, technical information or datasheets download.



# for Your Lift



NA1 ..

### MAIN FEATURES

- Dimensions: 99x22.5x114,5
- Output function Safety: 2NO force g. Auxiliary: 1 NPN opt. 55V/50mA
- Power supply: 24VAC/DC ±15% (50-60Hz)
- Power drain: 100mA
- Reponse time: 25ms
- Degree of prot. IP30
- Approvals/Marks: CE - TUV

Safety Module



RSHR ..

### MAIN FEATURES

- Dimens: 90x90x100
- Soft start. and topping of 3-phase motors
- Up to 22 kW at 400VAC
- Control input range: A1-A2 24-550VAC/DC
- Rated operational current: 25A, 45A
- Rated oper. voltage: 127/220 or 230/400 227/480 or 346/600
- Approvals/Marks: CE-UL-CUL

Soft Starter



RMI ..

### MAIN FEATURES

- Dimensions: 36x21.5x28
- 2 or 4 poles config.
- AC coils: 6 to 230VAC
- DC coils: 5 to 110VDC
- 3750VAC dielectric coil to contact
- Standard with LED, Push with arm and Flag
- Degree of protection: IP40
- Approvals/Marks: UL-CSA-TUV-IMO

Midi Industrial Relay

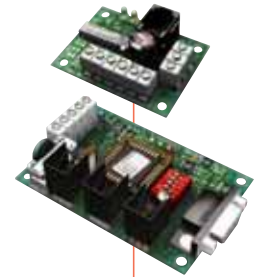


LS ..

### MAIN FEATURES

- Head type: plunger rounded, plunger with roller, side rotary lever,
- Housing material: thermoplastic or metal
- Available horizontal or vertical actuation
- Mechanical life: >15.000.000 cycles
- Degree of protection: IP67

Limit Switches



G21X0../G2196..

### MAIN FEATURES

- G21X0 ... :
  - Open PCB I/O-boards
  - 2or4or8 In
  - 2or4or8 Out
  - NPN or PNP Outputs
  - Connect.: terminals
- G2196 ... :
  - PLC interface RS232/RS485 on open PC
  - Dedicated vers. for all major PLC brands
  - Channel Generator function integrated
  - Connect.: terminals

Dupline Modules

## Expertise in norms & reliable solutions providing

- If one of the three phases mains is lost, a big damage might happens in the lift: blocking of the car, overheating and burning of the motor. With DPA51 a phase loss is detected in any way and the lift can go to a safe status (or: "can be positioned in a safe status").
- DPA51 is the smallest multi-voltage phase sequence and loss relay available on the market: this means smaller cabinets whit smaller costs.



Dupline I/O module  
floor call G21X0... serie.

Portata: 320 Kg  
N° persone: 4

Cylindrical and rectangular proximity magnetic sensors FMP, FSA and FSLP series.

Safety light curtains BLF series.

RSHR soft starter,  
NA1... / MA1... lift level modules,  
DPA51 3-phase voltage relays and  
G2196... Dupline master module.

- Carlo Gavazzi's extra-slim 9,5 mm profile light curtains provide the perfect solution for installations with tight room restrictions, offering one product to fit multiple requirements.

- Thanks to a light immunity of >100klux, Carlo Gavazzi's light curtains minimize malfunctioning due to extraneous light interferences, making them suitable for all application environments.

- Dirty and dusty environments will not be a problem anymore: our magnetic sensors are totally sealed and dipped in resin for maximum insulation and durability.

- FSLP magnetic sensors make your life easier thanks to their mounting kit ensuring you fast and accurate installations.

- Carlo Gavazzi brings a 25-years-old expertise in magnetic sensors, enabling us to match different requirements and to provide fully customized solutions.

- "Repeatability" is the characteristic of our magnetic sensors, direct consequence of the high accuracy we put selecting the reeds for each switch.

- Dupline is our bus system easy and fast to install: his 3-wires structure simplifies diagnosis and troubleshooting procedure, reducing intervention time and costs.

- Worry about EMC environments? Dupline grant you a very limited risk of false troubleshooting calls thanks to a high noise immunity proven by more than a thousand of installations in the lift market.

- NA1D LIFT is a safety relay designed to distinguish false signals and to be immune to very small interruptions caused by unstable power: false alarms stopping the entire lift and causing needless technical calls are then dramatically reduced.

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Carlo Gavazzi Ltd  
Zejtun - **MALTA**

Carlo Gavazzi Controls SpA  
Controls Division  
Belluno - **ITALY**

Carlo Gavazzi Controls SpA  
Sensors Division  
Castel Maggiore (BO) - **ITALY**

Uab Carlo Gavazzi Industri Kaunas  
Kaunas - **LITHUANIA**

Carlo Gavazzi Automation  
(Kunshan) Co., Ltd.  
Kunshan - **CHINA**

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**CARLO GAVAZZI**  
Automation Components

Further information on [www.carlogavazzi.com/ac](http://www.carlogavazzi.com/ac)

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