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Elevator/Lift Solutions

SW 17

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Components Designed for Your Requirements



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Carlo Gavazzi

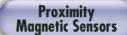
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brings several decades of expertise in Inductive, Magnetic and Photoelectric Sensors, in Timers, Phase Monitoring Relays, Electromechanical Relays, Limit Switches and Soft Starts — enabling us to match different requirements and provide fully customized solutions.



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Our Product Range



FMP/FS/S/SP.B.2

- Dimensions: M10, M12, M16 (FMP, FS) Ø16 (FSLP) 21.2 x 11. 5 x 79mm (S) 24 x 25.5 x 85mm (SP.B.2)
- Housing material: plastic or metallic
- Housing shape: cvlindrical and rectangular
- · Hermetically sealed and dipped in resin
- Degree of protection IP67
- CE Mark

Photoelectric Sensors

PE12

- Dimensions: Ø12 x 26mm
- Stand alone sensor, with no external amplifier required
- Power supply: 10-30 VDC
- Output: NPN or PNP 100mA
- Sensing distance: 15m
- Max ±5 degree
- Degree of protection: IP67
- CE Mark



Monitoring Relays

DPA53

- Dimensions: 81.5 x 17.5 x 67mm
- Phase sequence, total and partial phase loss monitoring relay, undervoltage
- DIN housing or plug-in
- 1 x SPDT relay
- Electrical life:
- >1x10° operations
- Power supply: 208-480 VAC
- UL/CSA Approved
- CE Mark



NA1/MA1

- Dimensions: 99 x 22.5 x 114.5 (NA1)mm 75 x 45 x 105 (MA1)mm
- Output function Safety: 2NO force guide Auxiliary: 1 NPN opt. 55V/50mA (MA1DLIFT)
- Power supply: 24VAC/DC ±15% (50-60Hz)
- Power drain: 100mA
- Response time: ≤ 25 ms
- Degree of protection IP30
- Safety category 4

www.GavazziOnline.com/Elevators

Designed to Market Requirements

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

Solution to Applications Challenges

Carlo Gavazzi's 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 www.GavazziOnline.com/Elevators to download data sheets or to check price and delivery

- Optical angle (degrees):

for Your Elevator/Lift





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RMI

- Dimensions: 36x21.5x28
- 2 or 3 poles
- Long life (minimum 100,000 electrical ops.)
- Standard with LED, and mechanical flag indicator
- Max load: 12A / 250VAC
- DC coils: 6 to 110VDC
- AC coils: 6 to 230VAC
- Degree of protection IP40
- Approvals/Marks: UL - CSA - TUV - IMQ

- RSHR
- Dimensions: 90x90x100
- Soft starting and stopping of 3-phase motors
- Up to 22 kW at 400VAC Control input range:
- A1-A2 24-550VAC/DC • Rated operational
- current: 25A, 45A
- Rated operational voltage: 127/220 or 230/400 or 227/480 or 346/600
- UL/cUL Approved
- CE Mark



E102, E202, E302 E402, E600, E700

- Head type: plunger rounded, plunger with roller, side rotary lever,
- Housing material: thermoplastic or metal
- Available horizontal or vertical actuation
- Mechanical life: >15,000 cycles
- Degree of protection IP67
- UL/cUL Approved
- CE Mark

G21x0/G2196

Dupline

Modules

G21x0 ... :

- Open PCB I/O-boards
- 2, 4 or 8 Input/Output
- NPN or PNP Outputs
- Connections: terminals **G2196 ... :**
- PLC interface RS232/ RS485 on open PC
- Dedicated versions for all major PLC brands
- Channel Generator
 function integrated
- Connections: terminals
- DC powered



Expertise in Standards/Norms & Providing Reliable Solutions

• If one of the three phase mains is lost, damage might occur to the lift: blocking of the car, overheating and burning of the motor.

• A phase loss is detected by the DPA53 and the lift can go to a safe status or positioned in a safe position.

• The DPA53 is the smallest multi-voltage phase sequence / loss and undervoltage relay offered on the market. This means smaller enclosures with lower costs.



G2196... Dupline master module, NA1... / MA1... Lift level modules and DPA53 3-phase voltage relays

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

> Dupline I/O module floor display G21x0... series

Dupline I/O module floor call G21x0... series

• Dirty and dusty environments will no longer be a problem, 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 decades of expertise in magnetic sensors, enabling us to match different requirements and to provide fully customized solutions.

• "Repeatability" is the characteristic of our magnetic sensors, a direct consequence of the high accuracy we put into selecting the reeds for each switch. • Dupline[®] is our bus system, which is easy and fast to install: the 3-wire structure simplifies diagnosis and troubleshooting procedures, thus reducing downtime time and costs.

• Worried about EMC environments? Dupline[®] grants you a very limited risk of false troubleshooting calls thanks to a high noise immunity, proven by more than a thousand installations in the lift market.

• NA1D LIFT is a safety relay designed to detect false signals and is immune to very small interruptions caused by unstable power, thus reducing false alarms (stopping of the entire lift) and reducing needless technical calls.

Carlo Gavazzi is a proud member of NAEC

The Complete Product Package



Inductive Proximity Sensors Tripleshield™ Capacitive Sensors Photoelectric Sensors Ultrasonic Sensors Level Sensors Limit Switches Magnetic Switches



Solid State Relays Contactors and Overloads Motor Controllers Manual Motor Starters **Electromechanical Relays** Pilot Devices Cam Switches Rotary Disconnects Enclosures



Energy Management Digital Panel Meters PID Controllers Time Delay Relays Current Monitoring Relays Voltage Monitoring Relays Three Phase Monitoring Relays Current Transformers



Safety Light Curtains Safety Control Modules Safety Interlock Switches Safety Mat Systems Safety Magnetic Sensors



Dupline Field & Installation Bus Building Automation Systems Elevator Systems

A Global Force in Industrial Automation

CARLO GAVAZZI has a multitude of sales offices spanning North America (not to mention our hundreds of distributors). Therefore, we can be viewed as "your local automation resource" - assisting you every step of the way in finding the proper solution for your various application requirements. Naturally, our job is greatly simplified as we have such a vast range of solutions to offer you via our comprehensive product package.

Our worldwide sales offices make us an ideal business partner, especially for manufacturers of exported machinery, as our products are available locally and they are CE marked.

USA

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