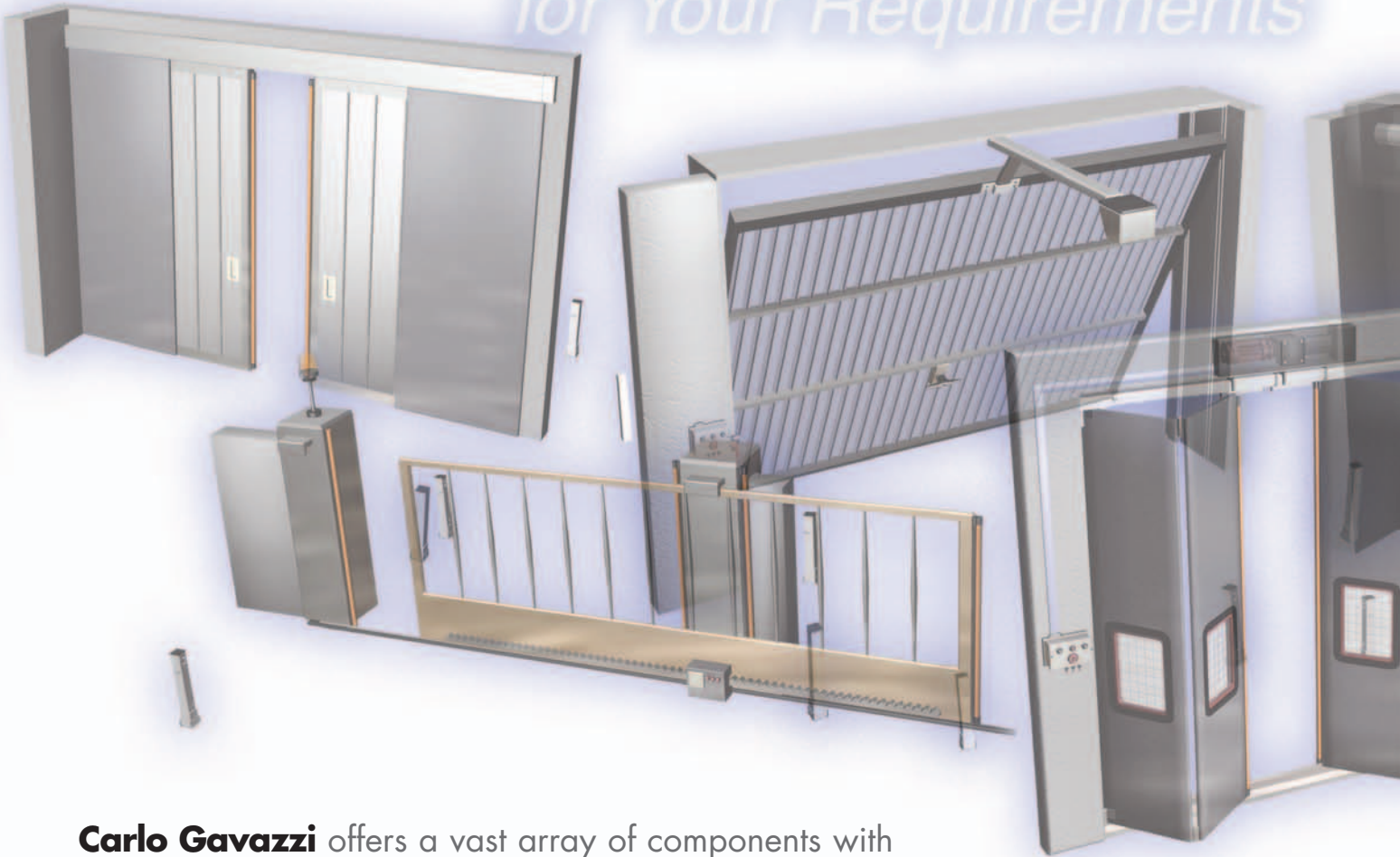


CARLO GAVAZZI
Automation Components



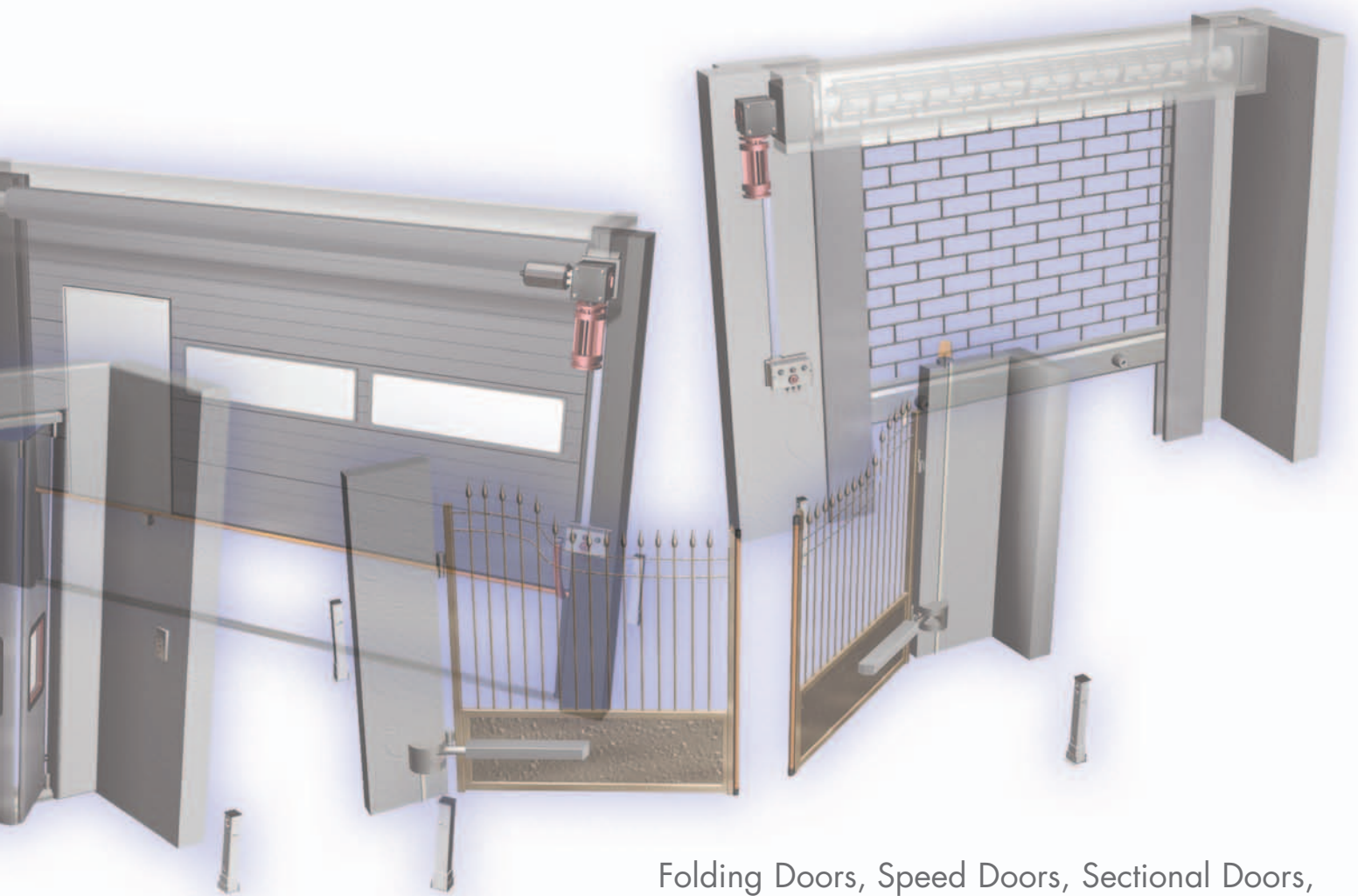
Door and Access System Solutions

Components Designed for Your Requirements



Carlo Gavazzi offers a vast array of components with thousands of installations in the automatic door and access system market, meeting all relevant North America and European standards.

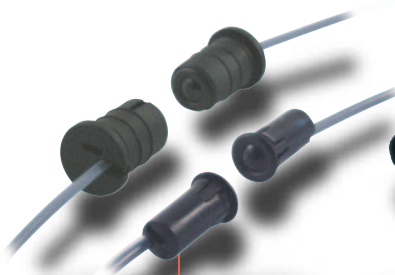




Folding Doors, Speed Doors, Sectional Doors, Sliding Doors, Up & Over Doors, Automated Turnstiles, Shutters, Swing Gates, Sliding Gates, Barriers and others.



Our Product Range for Your Doors



Photoelectric Sensors

PE12 / PB18 Series

- Sensing distance: Up to 15m
- Self-contained, 10-30 VDC, transistor output
- Mute input
- LED output indication
- Optical angle (degrees): ± 5
- Degree of protection: IP67
- UL/CSA Approved
- CE Mark

PE12 Series

- $\varnothing 12 \times 26$ mm
- Snap-in mounting

PB18 Series

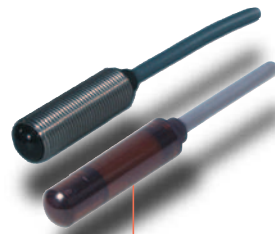
- $\varnothing 18 \times 30$ mm
- Two built-in sealing lips



Photoelectric Sensors

PB10 Series

- Dimensions: $\varnothing 10 \times 42$ mm or M12
- Ideal for harsh environments
- Sensing distance: Up to 15m
- Self-contained, 10-30 VDC, transistor output
- Mute input
- LED output indication
- Optical angle (degrees): ± 2
- Degree of protection: IP67
- UL/CSA Approved
- CE Mark



Photoelectric Sensors

MOF Series

- Dimensions: $\varnothing 10 \times 42$, M12 or M14
- Connections: Cable
- Sensing distance: Up to 50 m
- Optical angle (degrees): Maximum of ± 2 , 5 or 8
- Degree of protection: IP67
- CE Mark



Photoelectric Sensors

MPF Series

- 3-channel amplifier
- Sensing distance: 15m
- Amplifier power supply: 12-24 VAC/DC, 115 VAC or 230 VAC
- Output: Up to 3 x 2 SPST in series
- Mute input
- Degree of protection: IP67 sensor and IP40 amplifier
- Optical angle (degrees): ± 5
- UL Approved
- CE Mark

Dependable performance in any condition

Several thousand of our MOF Series photoelectric sensors have been installed without any problems due to water. All Carlo Gavazzi sensors are tested to be immune against industrial frequency converters and surrounding light according to UL325, UL508, IEC and EN regulations. The doors work without operational problems in worst case conditions. The detection capability of the sensors is not influenced by the change of the seasons either.





Photoelectric Sensors

PC50 Series

- Dimensions: 17x50x50mm
- Sensing distance: Up to 20 m
- Self-contained, AC or DC supply, transistor or relay output
- Connections: M12 connector or cable
- Housing material: Reinforced ABS/PC
- Degree of protection: IP67
- UL/CSA Approved
- CE Mark



Photoelectric Sensors

PM Series

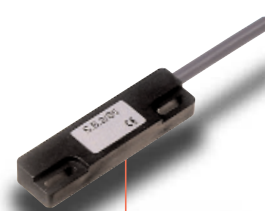
- Dimensions: 25x65x81mm
- Integrated amplifier
- Sensing distance: Up to 20 m
- Self-contained, AC or DC supply, transistor, relay or dual relay output
- Mute input
- Connections: Terminals
- UL/CSA Approved
- CE Mark



Inductive Proximity Sensors

IA Series

- Dimensions: M8, M12, M18, M30
- 2 wire or 3 wire
- Short and long body
- Self-contained, AC or DC supply, transistor or SCR output
- Connections: M12 connector or cable
- Housing material: Nickel-plated brass or stainless steel
- Degree of protection: IP67
- UL/CSA Approved
- CE Mark



Magnetic Sensors

S/ FM Series

- Type: Cylindrical or rectangular
- Normally open or normally closed
- Output connection: PVC cable or twin-lead cable
- Operating distance: Up to 27 mm
- Case: plastic, brass or stainless steel
- CE Mark

www.GavazziOnline.com/Doors

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 product 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/Doors to download data sheets or to check price and delivery

Our Product Range for Your Doors



Ultrasonic Sensors

UA Series

- Dimensions: M18 or M30
- Housing material: PBTB
- Sensing distance: Up to 3500 mm
- Self-contained, 18-30 VDC supply with transistor or analog output
- Connections: M12 connector, cable or terminals
- Degree of protection: IP67
- UL/cUL Approved
- CE Mark



Limit Switches

E102, E202, E302, E402, E600, E700

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



Timers

DAA/DMB51 Series

- Dimensions: 81.5x17.5x67mm or 80x22.5x99.5mm or 80x36x90mm
- Delay on operate or multifunction delays
- Housing: Plug-in or DIN rail mount
- Electrical life: >10⁵ operations
- UL/cUL Approved
- CE Mark



Soft Start/Stop Motor Controllers

RSE Series

- Dim.: 80 x 45 x 103mm
- Soft starting and stopping of 3-phase motors
- Up to 11 kW at 400VAC
- Control input range: A1-A2 24-110VAC/DC A1-A3 110-480 VAC
- Rated operational current: 3A, 12A, 25A
- Rated operational voltage: 127/220 or 230/400 or 227/480 or 346/600
- UL/CSA Approved
- CE Mark



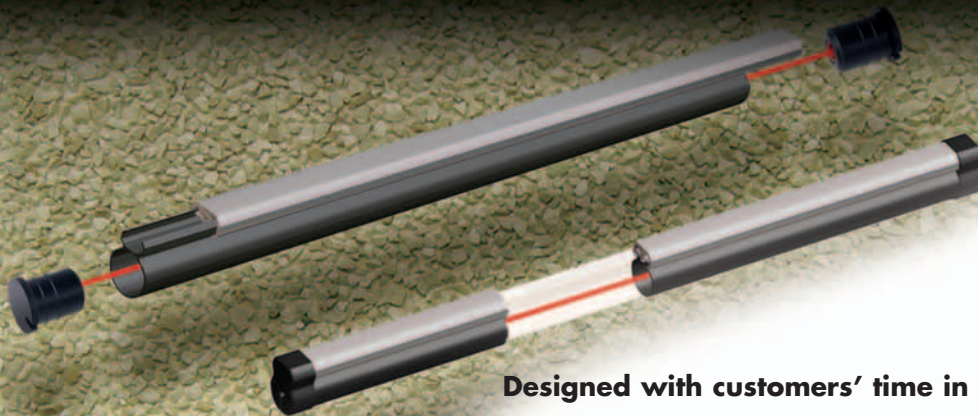
Expertise in Standards/Norms & Providing Reliable Solutions

Thanks to our MPF sensors you can greatly reduce complex and costly installations of the safety edge. In fact, the MPF sensors for safety edges use standard unshielded 4-wire spiral cable from the controller to the edge sensor. Standard non-shielded spiral cables simplify the installation to the safety edge. The MPF family is the only product of this type compliant with both UL325 and EN norms for the Door and Access System Markets. The MPF is designed to test functionality when used in the rubber profile/safety edge.

One of several applications



Carlo Gavazzi is a proud member of:

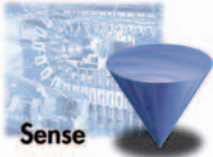


Designed with customers' time in mind

We have more than 400,000 installations in the door market, which drove Carlo Gavazzi to design the MPF photoelectric according to the market requirements and norms. Our MPF sensor with "click-in" installation can easily adapt to either thick or thin frame material. The MPF can offer up to 3 channels (3 safety edges or 3 standard beams can be controlled by one amplifier). The MPF is one of the smallest sensors on the market, only 25 mm long (fully compliant with current regulations).



The Complete Product Package



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



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



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



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



Dupline
 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.

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Door and Access System Solutions Brochure 1/05

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