

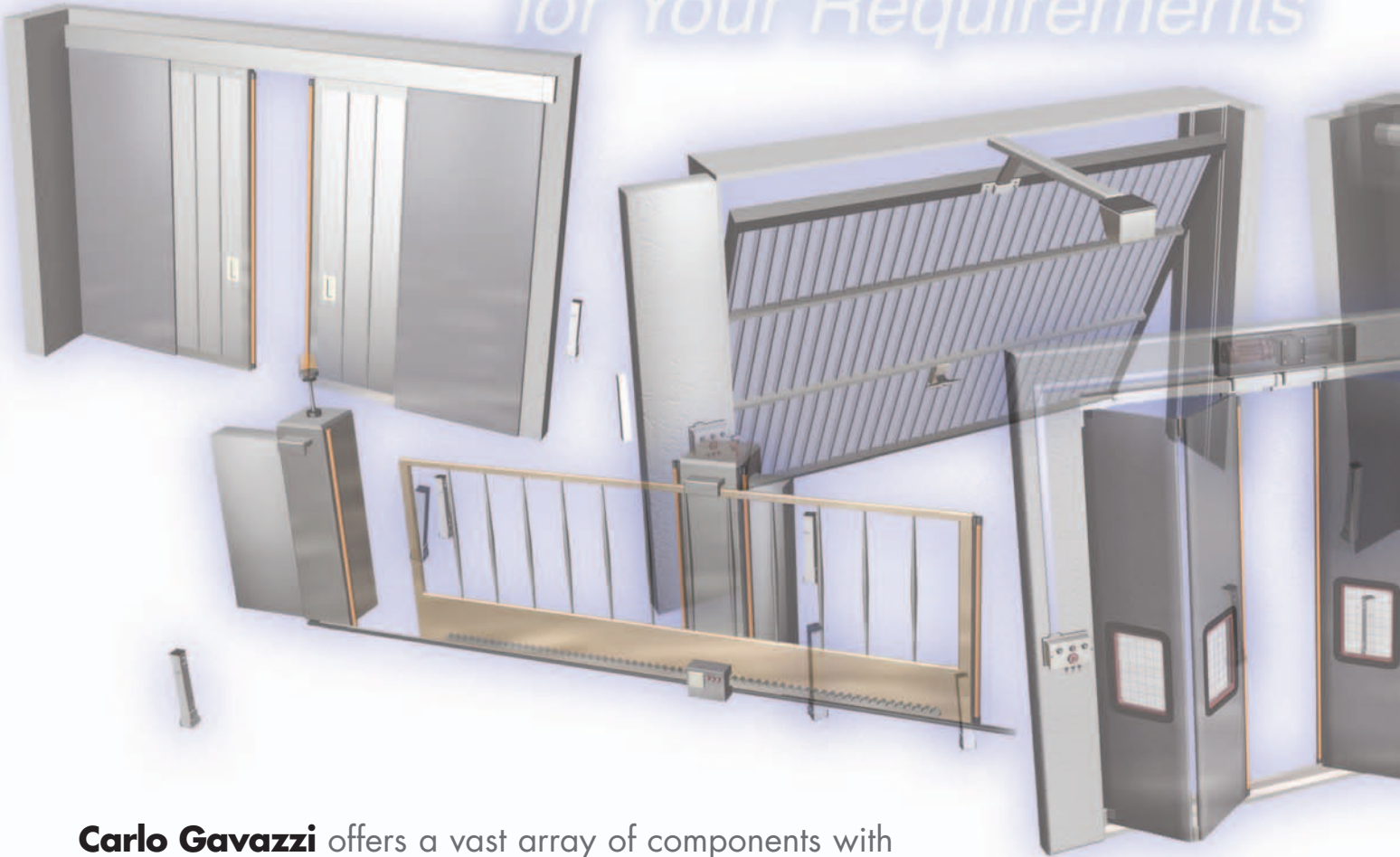
**CARLO GAVAZZI**  
Automation Components



## *Door and Access System Solutions*



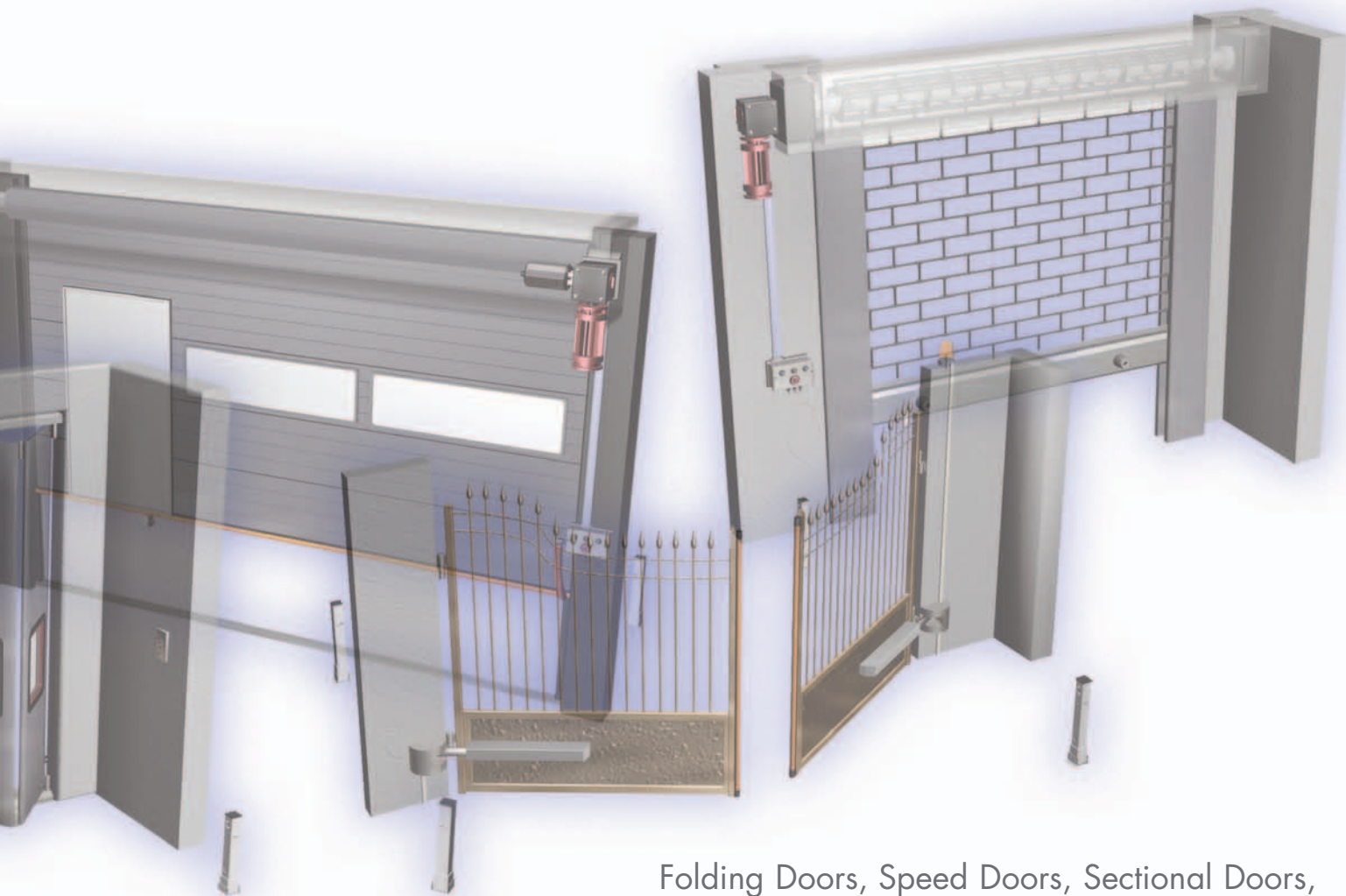
# *Components Designed for Your Requirements*



**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.





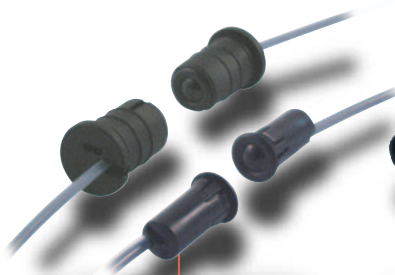


Folding Doors, Speed Doors, Sectional Doors,  
Sliding Doors, Up & Over Doors, Automated Turnstiles,  
Shutters, Swing Gates, Sliding Gates, Barriers and others.





# 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):  $\pm 5$
- Degree of protection: IP67
- UL/CSA Approved
- CE Mark

#### PE12 Series

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

#### PB18 Series

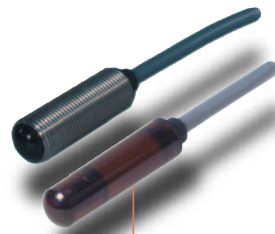
- $\varnothing 18 \times 30$ mm
- Two built-in sealing lips



## 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):  $\pm 2$
- 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  $\pm 2$ , 5 or 8
- Degree of protection: IP67
- CE Mark



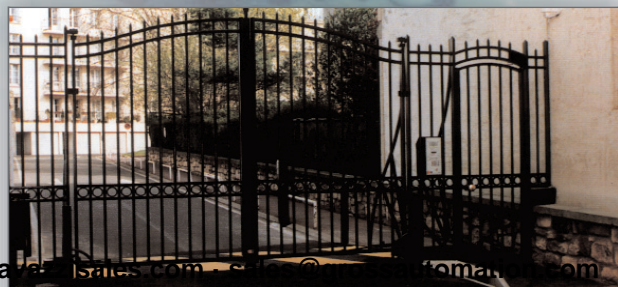
## Photoelectric Sensors

### 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):  $\pm 5$
- 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

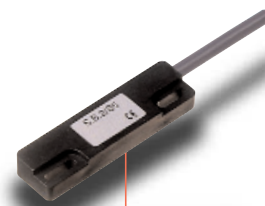
- Dimensions: 25x65x81mm
- Integrated amplifier
- Sensing distance: Up to 20 m
- Self-contained, AC or DC supply, transistor, relay or dual relay output
- Mute input
- Connections: Terminals
- UL/CSA Approved
- CE Mark



### 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



#### **Designed to Market Requirements**

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

#### **Solution to Applications Challenges**

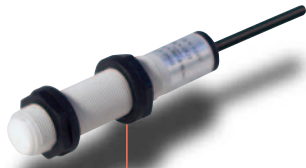
Carlo Gavazzi's individual product ranges complement one another, thereby offering the customer all the advantages of a synergistic range of products in terms of application and availability.

#### **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.



# 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: >10<sup>5</sup> 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

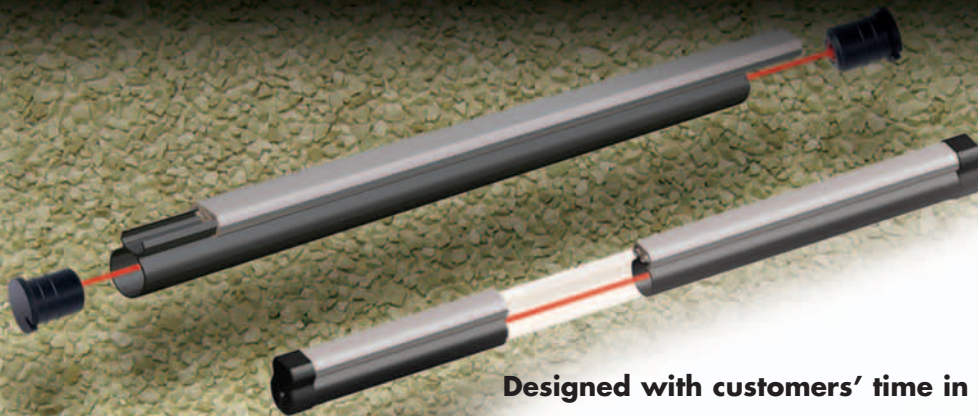
Thanks to our MPF sensors you can greatly reduce complex and costly installations of the safety edge. In fact, the MPF sensors for safety edges use standard unshielded 4-wire spiral cable from the controller to the edge sensor. Standard non-shielded spiral cables simplify the installation to the safety 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).

