



Solutions

Automatic Doors and Access Controls

Solutions for Doors and Access controls



Designed to meet market requirements

The market for automated doors is growing and becoming more specialised. The type of product that fits best with a particular application is determined by frequency of operation, speed of operation required, new versus existing construction, traffic flow and cost.

Automatic doors are a normal feature in many commercial buildings and infrastructures such as shopping centres and airports, as well as in industrial environments such as factories and also in residential buildings.

Although they come in a variety of types, including sliding, swing, folding, up-and-over etc.; they all need to conform to the highest standards of safety.

In an industrial environment, which is the largest part of our business, automatic doors enable the set temperature in cold storage rooms to be maintained by fast opening and closing, leading to considerable energy efficiency and reduction of costs. Automated doors in commercial facilities are the preferred means of access for all users, not only people with disabilities, and are a significant aid to accessibility. Moreover, their use minimizes heat or air conditioning loss, maintaining a constant temperature and consequently saving money.

This brochure highlights the following market applications: industrial doors, garage doors, pedestrian doors,

access controls, gates and barriers, intended for installation in areas where the main purpose is to give safe access for goods and accompanied vehicles, in industrial and commercial premises and in residential garages.

Carlo Gavazzi has developed its expertise in the Industrial Door segment of the market and our products are designed and manufactured in full compliance with both North American and European standards.

Our product families are certified to meet EN 13241-1, EN 12978, EN 12445, EN 12453 and UL 325 regulations for safety in the use of power operated doors such as industrial and garage doors and gates.

About Carlo Gavazzi

Carlo Gavazzi Automation is a multinational electronics group active in the design, manufacture and marketing of electronic equipment targeted at the global markets of industrial and building automation.

Our history is full of firsts and our products are installed in a huge number of applications all over the world. With more than 80 years of successful operation, our experience is unparalleled.

We have our headquarters in Europe and numerous offices around the world.

Our R&D competence centres and production sites are located in Denmark, Italy, Lithuania, Malta and the People's Republic of China.

We operate worldwide through 22 of our own sales companies and also selected representatives in more than 65 countries, from the United States in the West to the Pacific Rim in the East.

Our core competence in automation spans three product lines: Sensors, Switches and Controls.

Our wide array of products includes sensors, monitoring relays, timers, energy management system, solid state

relays, safety devices and fieldbus systems.

We focus our expertise on offering state-of-the-art product solutions in selected market segments.

Our customers include original equipment manufacturers of packaging machines, plastic-injection moulding machines, food and beverage production machines, conveying and material handling equipment, door and entrance control systems, lifts and escalators, as well as heating, ventilation and air-conditioning devices.



	Roller, Shutter, Folding and Speed doors	Sectional and Up-and-Over doors	Gates and barriers	Pedestrian doors	Access controls
Combined motion and presence detectors				▼	
Inductive sensors		▼			▼
Loop detectors	▼		▼		
Photoelectric sensors	▼	▼	▼	▼	▼
Slim industrial relays	▼	▼	▼	▼	▼
Switching power supplies	▼	▼	▼	▼	▼
Variable speed drives	▼	▼	▼		
Wireless safety system	▼	▼	▼		

Solutions for Roller, Shutter, Folding and Speed



Photoelectric sensors



PA12/PB10

- 20 m sensing distance
- Light beam approved to Safety Category 2
- UL325, UL508, EN12445, EN12453, EN12978
- Coded sensors available for less crosstalk

- [Datasheet PB10 coded](#)
- [Datasheet PB10 no coded](#)
- [Datasheet PA12 coded](#)
- [Datasheet PA12 no coded](#)

Photoelectric sensors



PE12/PB18

- 15 m sensing distance
- Light beam approved to ESPE 2, PL C
- UL325, UL508, EN12445, EN12453, EN12978, EN13849-1
- Coded sensors available for less crosstalk

- [Datasheet PE12 coded](#)
- [Datasheet PE12 no coded](#)
- [Datasheet PB18](#)

Photoelectric sensors



PD70

- Emitter with Mute Input for testing the sensor
- 12 m sensing distance
- Light beam approved to Safety Category 2
- UL325, UL508, EN12445, EN12453, EN12978

- [Datasheet](#)
- [Product brochure](#)

Photoelectric sensors



MOFT + S142

- Up to 50 m sensing distance
- Light beam approved to Safety Category 2
- UL508, EN12445, EN12453, EN12978
- Up to 3 multiplexed channels

- [Datasheet MOFT](#)
- [Datasheet S142](#)

Photoelectric sensors



PM

- Through beam and Polarized Retro-reflective sensors
- Light beam approved to Safety Category 2
- UL325, UL508, EN12445, EN12453, EN12978

- [Datasheet PMP](#)
- [Datasheet PMT](#)

Photoelectric sensors



PD86 / PD86HNP

- Polarized Retro-reflective sensors
- Light beam approved to Safety Category 2
- UL325, UL508, EN12445, EN12453, EN12978

- [Datasheet PD86](#)
- [Datasheet PD86HNP](#)
- [Product brochure](#)
- [Application note](#)





Photoelectric sensors



PD98

- 30 m sensing distance
- Light beam approved to Safety Category 2
- UL325, UL508, EN12445, EN12453, EN12978

• [Datasheet](#)

Wireless safety system



WSM / WSS / PB11

- 10 m wireless distance, 15 m for the gate version
- Light beam approved to Safety Category 2
- UL508, EN12445, EN12453, EN12978, FCC, IC
- Replacing wired safety solutions for doors and gates

• [Datasheet](#)
• [Product brochure](#)

Loop detectors



LDP1 / LDP2 / LDD1 / LDD2

- Single loop or dual loop
- DIN rail mounting
- UL and CSA approved
- Multicolour LED for easy setup and intuitive diagnostics
- Selectable fail safe and fail secure mode

• [Datasheet LDP](#)
• [Datasheet LDD](#)
• [Video](#)

Variable speed drives



RVLF

- Compact dimensions 72 x 141 x 139 mm
- Built-in EMI filter
- Single-phase or three-phase supply
- Ease of use, minimal settings
- CE, UL, ROHS approved

• [Datasheet](#)
• [Product brochure](#)

Switching power supplies



SPD / SPMA / SPDM / SPDC

- Compact dimensions
- High efficiency and wide operating temperature
- Wide output power and voltage
- CE, cULus, cURus, UL1310 Class 2 (up to 90W), ISA 12.12.1 Class I Div2, UL121201 Class I Div2, UL62368, TÜV, CCC

• [Datasheet SPD](#)
• [Datasheet SPDM](#)
• [Product brochure](#)
• [Video SPDM](#)
• [Datasheet SPDC](#)
• [Datasheet SPMA](#)
• [Overview by products](#)
• [Video SPDC](#)

Slim industrial relays



RSLM

- Slim size
- High breakdown voltage
- Conforms to VDE 0700, 0631 reinforced insulation
- High sensitivity

• [Datasheet](#)

Solutions for Sectional and Up-and-Over doors



Photoelectric sensors



PE12/PB18

- 15 m sensing distance
- Light beam approved to ESPE 2, PL C
- UL325, UL508, EN12445, EN12453, EN12978, EN13849-1
- Coded sensors available for less crosstalk

- [Datasheet PE12 coded](#)
- [Datasheet PE12 no coded](#)
- [Datasheet PB18](#)

Photoelectric sensors



PM

- Through beam and Polarized Retro-reflective sensors
- Light beam approved to Safety Category 2
- UL325, UL508, EN12445, EN12453, EN12978

- [Datasheet PMP](#)
- [Datasheet PMT](#)

Photoelectric sensors



PC50

- Through beam and Retro-reflective sensors
- Light beam approved to Safety Category 2
- UL325, UL508, EN12445, EN12453, EN12978
- Visible polarized light or Infrared versions

- [Datasheet](#)

Photoelectric sensors



MPF

- Relay output SPST
- 15 m Sensing Distance
- Light beam approved to Safety Category 2
- UL325, UL508, EN12445, EN12453, EN12978

- [Datasheet](#)

Photoelectric sensors



PD86 /PD86HNP

- Polarized Retro-reflective sensors
- Light beam approved to Safety Category 2
- UL325, UL508, EN12445, EN12453, EN12978

- [Datasheet PD86](#)
- [Datasheet PD86HNP](#)
- [Product brochure](#)

Photoelectric sensors



PD98

- 30 m Sensing Distance
- Light beam approved to Safety Category 2
- UL325, UL508, EN12445, EN12453, EN12978

- [Datasheet](#)





Inductive proximity sensors



ICB12 / ICB18 / ICB30

- Sensing distance from 2 up to 22 mm
- High precision and reliability thanks to the microprocessor technology
- Eco-friendly potting material
- Short-circuit and overload LED indication

- [Datasheet ICB12](#)
- [Product brochure](#)
- [Video](#)
- [Datasheet ICB18](#)
- [Datasheet ICB30](#)
- [Overview by product](#)

Wireless safety system



WSM / WSS / PB11

- 10 m wireless distance, 15 m for the gate version
- Light beam approved to Safety Category 2
- UL508, EN12445, EN12453, EN12978, FCC, IC
- Replacing wired safety solutions for doors and gates

- [Datasheet](#)
- [Product brochure](#)

Variable speed drives



RVLF

- Compact dimensions 72 x 141 x 139 mm
- Built-in EMI filter
- Single-phase or three-phase supply
- Ease of use, minimal settings
- CE, UL, ROHS approved

- [Datasheet](#)
- [Product brochure](#)

Switching power supplies



SPD / SPMA / SPDM / SPDC

- Compact dimensions
- High efficiency and wide operating temperature
- Wide output power and voltage
- CE, cULus, cURus, UL1310 Class 2 (up to 90W), ISA 12.12.1 Class 1 Div2, UL121201 Class 1 Div2, UL62368, TÜV, CCC

- [Datasheet SPD](#)
- [Datasheet SPDM](#)
- [Product brochure](#)
- [Video SPD](#)
- [Datasheet SPDC](#)
- [Datasheet SPMA](#)
- [Overview by products](#)
- [Video SPDC](#)

Slim industrial relays



RSLM

- Slim size
- High breakdown voltage
- Conforms to VDE 0700, 0631 reinforced insulation
- High sensitivity

- [Datasheet](#)

Solutions for Gates and barriers



Photoelectric sensors



PB10 /MOFT /R + S142

- Up to 50 m sensing distance
- Light beam approved to Safety Category 2
- UL508, EN12445, EN12453, EN12978
- Up to 3 multiplexed channels

- [Datasheet MOFT](#)
- [Datasheet S142](#)
- [Datasheet PB10 coded](#)
- [Datasheet PB10 no coded](#)

Photoelectric sensors



PD98

- 30 m sensing distance
- Light beam approved to Safety Category 2
- UL325, UL508, EN12445, EN12453, EN12978

- [Datasheet](#)

Photoelectric sensors



PD140

- 60 m sensing distance
- Alignment help: Flashing LEDs, Voltage output and Laser Alignment tool
- ESPE category 2, Performance level d
- UL325, UL508, EN12453, EN12978

- [Datasheet](#)
- [Product brochure](#)
- [Video](#)

Photoelectric sensors

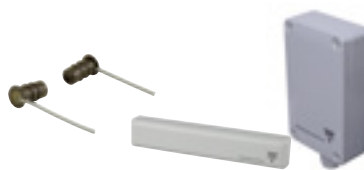


PD180

- 30 m sensing distance
- Light beam approved to Safety Category 2
- UL325, UL508, EN12445, EN12453, EN12978
- Input for prolonging battery lifetime

- [Datasheet](#)
- [Product brochure](#)

Wireless safety system



WSM / WSS / PB11

- 10 m wireless distance, 15 m for the gate version
- Light beam approved to Safety Category 2
- UL508, EN12445, EN12453, EN12978, FCC, IC
- Replacing wired safety solutions for doors and gates

- [Datasheet](#)
- [Product brochure](#)

Inductive proximity sensors



ICB12 / ICB18 / ICB30

- Sensing distance from 2 up to 22 mm
- High precision and reliability thanks to the microprocessor technology
- Eco-friendly potting material
- Short-circuit and overload LED indication

- [Datasheet ICB12](#)
- [Product brochure](#)
- [Video](#)
- [Datasheet ICB18](#)
- [Datasheet ICB30](#)
- [Overview by product](#)





Loop detectors



LDP1 / LDP2 / LDD1 / LDD2

- Single loop or dual loop
- DIN rail mounting
- UL and CSA approved
- Multicolour LED for easy setup and intuitive diagnostics
- Selectable fail safe and fail secure mode

- [Datasheet LDP](#)
- [Datasheet LDD](#)
- [Video](#)
- [Application note 1](#)
- [Application note 2](#)

Variable speed drives



RVLF

- Compact dimensions 72 x 141 x 139 mm
- Built-in EMI filter
- Single-phase or three-phase supply
- Ease of use, minimal settings
- CE, UL, ROHS approved

- [Datasheet](#)
- [Product brochure](#)

Switching power supplies



SPD / SPMA / SPDM / SPDC

- Compact dimensions
- High efficiency and wide operating temperature
- Wide output power and voltage
- CE, cULus, cURus, UL1310 Class 2 (up to 90W), ISA 12.12.1 Class I Div2, UL121201 Class I Div2, UL62368, TÜV, CCC

- [Datasheet SPD](#)
- [Datasheet SPDM](#)
- [Product brochure](#)
- [Video SPDM](#)
- [Datasheet SPDC](#)
- [Datasheet SPMA](#)
- [Overview by products](#)
- [Video SPDC](#)

Slim industrial relays



RSLM

- Slim size
- High breakdown voltage
- Conforms to VDE 0700, 0631 reinforced insulation
- High sensitivity

- [Datasheet](#)

Solutions for Pedestrian doors



Photoelectric sensors



PE12

- 15 m sensing distance
- Light beam approved to ESPE 2, PL C
- UL325, UL508, EN12445, EN12453, EN12978, EN13849-1
- Coded sensors available for less crosstalk

- [Datasheet PE12 coded](#)
- [Datasheet PE12 no coded](#)

Photoelectric sensors



PD112

- 2,5 m sensing distance
- Light beam approved to Safety Category 2
- UL325, UL508, EN12445, EN12453, EN12978
- Long detection range on black objects

- [Datasheet](#)

Photoelectric sensors



PD70

- Emitter with Mute Input for testing the sensor
- 12 m sensing distance
- Light beam approved to Safety Category 2
- UL325, UL508, EN12445, EN12453, EN12978

- [Datasheet](#)
- [Product brochure](#)

Combined motion and presence detectors



GUARDIAN

- Easy modifying the motion zone
- 1.8 to 3 m mounting height
- Motion and presence sensor in one unit
- Guardian 2 can be adapted to curved sliding doors
- Vision based detection
- CE, UL325 and TÜV approved

- [Datasheet Guardian 1](#)
- [Datasheet Guardian 2](#)
- [Product brochure](#)

Switching power supplies



SPD / SPMA / SPDM / SPDC

- Compact dimensions
- High efficiency and wide operating temperature
- Wide output power and voltage
- CE, cULus, cURus, UL1310 Class 2 (up to 90W), ISA 12.12.1 Class I Div2, UL121201 Class I Div2, UL62368, TÜV, CCC

- [Datasheet SPD](#)
- [Datasheet SPDM](#)
- [Product brochure](#)
- [Video SPDM](#)
- [Datasheet SPDC](#)
- [Datasheet SPMA](#)
- [Overview by products](#)
- [Video SPDC](#)

Slim industrial relays



RSLM

- Slim size
- High breakdown voltage
- Conforms to VDE 0700, 0631 reinforced insulation
- High sensitivity

- [Datasheet](#)



Photoelectric sensors



PB10

- 20 m sensing distance
- Light beam approved to Safety Category 2
- UL325, UL508, EN12445, EN12453, EN12978
- Coded sensors available for less crosstalk

- [Datasheet PB10 coded](#)
- [Datasheet PB10 no coded](#)

Photoelectric sensors



PE12

- 15 m sensing distance
- Light beam approved to ESPE 2, PL C
- UL325, UL508, EN12445, EN12453, EN12978, EN13849-1
- Coded sensors available for less crosstalk

- [Datasheet PE12 coded](#)
- [Datasheet PE12 no coded](#)

Photoelectric sensors



PD30

- Through beam and Retro-reflective sensors
- Light beam approved to Safety Category 2
- UL325, UL508, EN12445, EN12453, EN12978
- Visible polarized light or Infrared versions
- Used for Entrance systems

- [Datasheet PD30CNT](#)
- [Datasheet PD30CNP](#)
- [Product brochure](#)
- [Video](#)

Photoelectric sensors



PC50

- Through beam and Retro-reflective sensors
- Light beam approved to Safety Category 2
- UL325, UL508, EN12445, EN12453, EN12978
- Visible polarized light or Infrared versions

- [Datasheet](#)

Inductive proximity sensors



ICB12 / ICB18 / ICB30

- Sensing distance from 2 up to 22 mm
- High precision and reliability thanks to the microprocessor technology
- Eco-friendly potting material
- Short-circuit and overload LED indication

- [Datasheet ICB12](#)
- [Product brochure](#)
- [Video](#)
- [Datasheet ICB18](#)
- [Datasheet ICB30](#)
- [Overview by product](#)

Switching power supplies



SPD / SPMA / SPDM / SPDC

- Compact dimensions
- High efficiency and wide operating temperature
- Wide output power and voltage
- CE, cULus, cURus, UL1310 Class 2 (up to 90W), ISA 12.12.1 Class I Div2, UL121201 Class I Div2, UL62368, TÜV, CCC

- [Datasheet SPD](#)
- [Datasheet SPDM](#)
- [Product brochure](#)
- [Video SPDM](#)
- [Datasheet SPDC](#)
- [Datasheet SPMA](#)
- [Overview by products](#)
- [Video SPDC](#)

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