



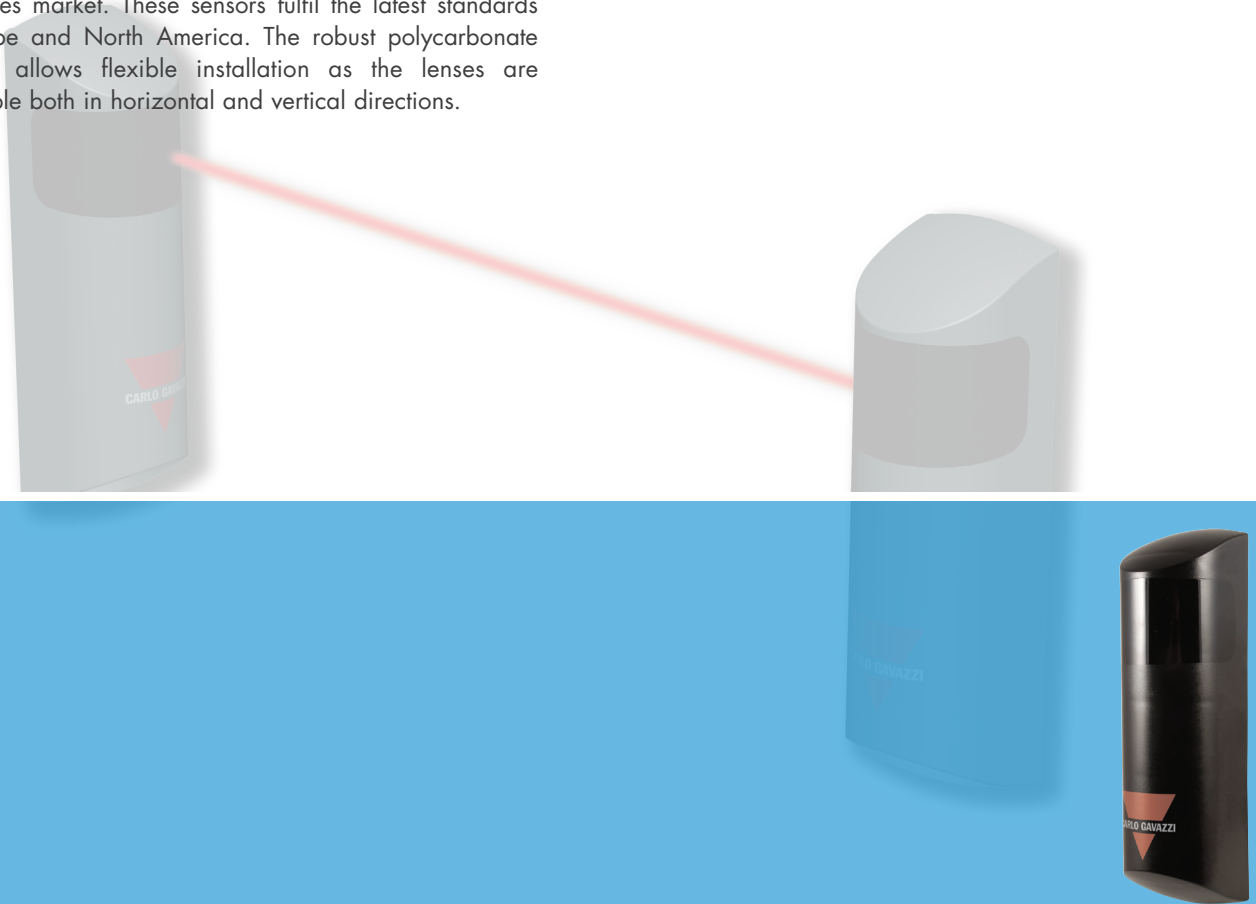
PD180 Series - Photoelectric sensors

Sensors

PD180 Series

Heavy duty sensors with battery supply

The PD180 sensors are developed for the industrial doors and gates market. These sensors fulfil the latest standards in Europe and North America. The robust polycarbonate housing allows flexible installation as the lenses are adjustable both in horizontal and vertical directions.



Specifically designed for doors and gates

Diagnostic warning

Increased safety by the built-in sensor test function designed to switch off the emitter when the door or gate is fully closed.

This feature two functions:

- The door controller can verify the sensor functions.
- The battery lifetime is increased. An output on the receiver warns the user of low battery status.

Application durability

The PD180 are designed to last in Industrial Doors and Gates applications.

User-friendly

The PD180 sensor is easy to install thanks to the battery supply that eliminates the need of cabling to the emitter. The emitter and receiver lenses can be adjusted 200° horizontal and $\pm 30^\circ$ vertical which makes mechanical alignment easy.

The aspherical lens design is superior to previous sensor designs with built-in parabolic reflectors, thus eliminating corrosion and dust problems.

Harsh environments

The sensor is encapsulated in a stylish and robust polycarbonate housing, which protects against mechanical impact as well as splashing water (IP55).

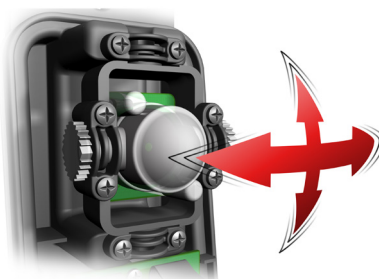
Approvals

The sensors are designed according to the European and North American door standards EN12445, EN12453, EN12978 and UL325.

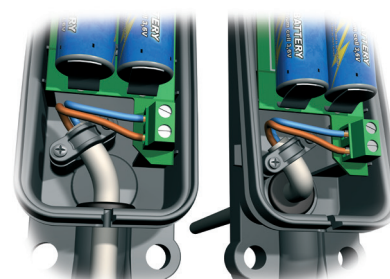


Benefits

- Fulfills the door safety standards (ESPE type 2)
- Easy mechanical adjustment, no tool needed.
 - Horizontal 200°
 - Vertical $\pm 30^\circ$
- Robust polycarbonate housing
- Long Battery lifetime
- Protection against splashing water (IP55)
- Mute input
- Stylish design
- Screw terminal and cable connection
- Two selectable cable outlets

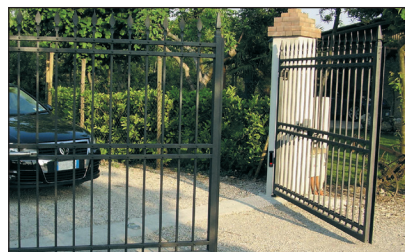


Easy mechanical adjustment



Two selectable cable outlets

Applications



Specifications

	Emitter	Receiver
PD180	PD180CBT30MU	PD180CBT30Q
Rated operating distance (S _n)	15 or 30 m depends on the emitter settings (jumper)	
Rated operational voltage	2 x 3.6 VDC Lithium batteries Size AA	Supply class 2, 12 to 24 VAC/DC
Supply current	With mute active Typ. 29 μ A	≤ 35 mA DC, With battery low alarm ≤ 55 mA DC
Battery lifetime	2.5 years with 15 m and 1.5 years with 30 m	
Output current (I _o) (for both detection and low battery)	-	Continuous 1A/30 VDC, 0.5 A / 30 VAC Lifetime contacts > 100 000 AC11 or DC11
Sensor protection	Shortcircuit, reverse polarity and transients	Reverse polarity and transients
Led indications	-	Power ON (Green LED), Output ON (Yellow LED)
Degree of protection	IP55	
Ambient temperature	Operating: -25 to +55°C (-13 to +131°F), Storage: -25 to +80°C (-13 to +176°F)	
Optical angle	$\pm 5^\circ$	
Lens adjustment	Horizontal 200°, Vertical $\pm 30^\circ$	
Ambient light	-	> 20 000 Lux
CE marking / Approvals	EN12445, EN12453, EN12978 / cULus (UL325), CSA-C22.2No.247	
Overvoltage category	III (IEC60664/60664A; 60947-1)	
Pollution degree	3(IEC60664/60664A; 60947-1)	
Light source	LED 850 nm, Infrared modulated	-
Material	Front: PC black, Backpart: PC black	
Connection	2 pole terminal block	6 pole terminal block
Dimensions / Weight	Emitter 270 g, Receiver 230 g	

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