

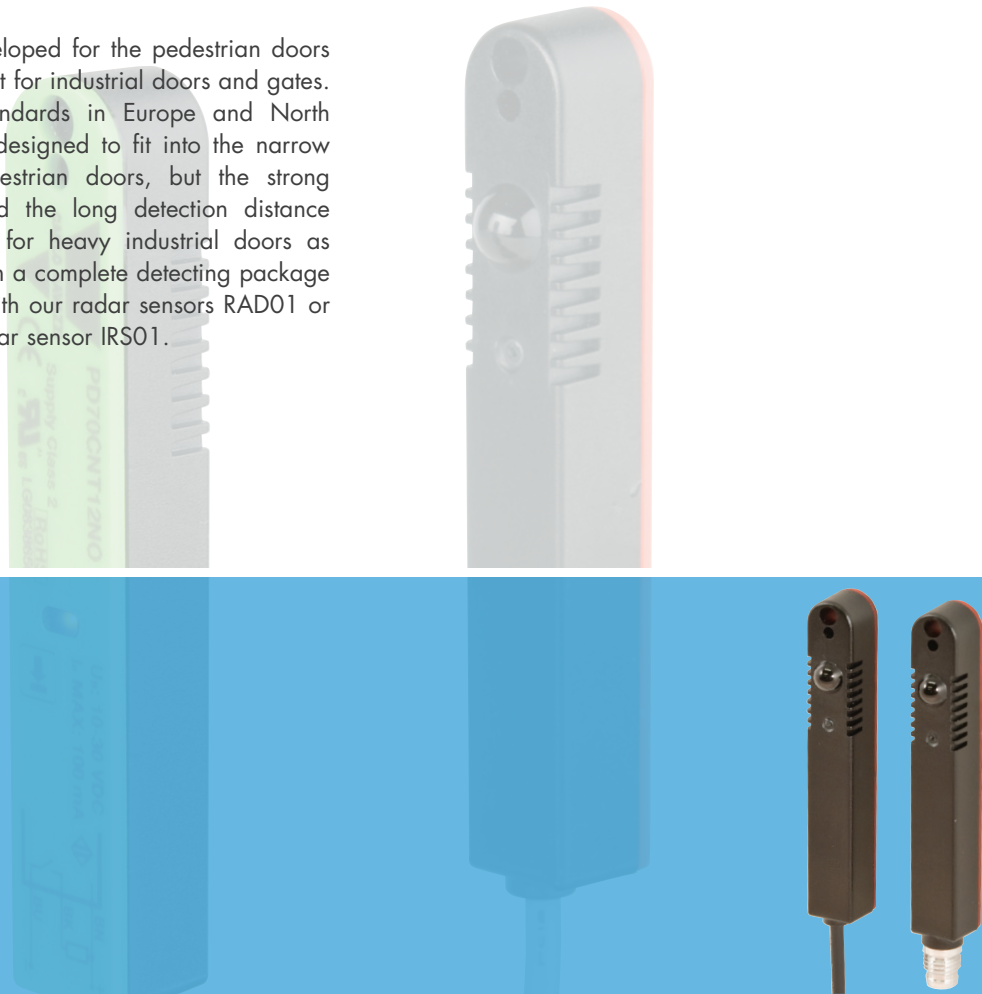
PD70 Series - Photoelectric sensors

Sensors

PD70 Series

Slim photoelectric sensor for door market

The PD70 sensors are developed for the pedestrian doors market as well as the market for industrial doors and gates. They satisfy the latest standards in Europe and North America. The sensors are designed to fit into the narrow aluminium profiles of pedestrian doors, but the strong polycarbonate housing and the long detection distance make the sensors suitable for heavy industrial doors as well. The PD70 sensors form a complete detecting package for doors in combination with our radar sensors RAD01 or RAD02 or the industrial radar sensor IRS01.



Through-beam sensors for pedestrian and industrial doors

Presence detector

PD70 is a family of presence sensors designed specifically for the door and entrance market. The presence sensor has to be mounted in the doorway in order to prevent the door from closing when a person is present.

Clearly defined optics

The advanced lens geometry allows a uniform light beam over the full detecting range keeping the full +/- 5 degree beam over the entire detecting range.

Light immunity

The receiving lens system with aperture, in combination with the colour filter and the electronic filtering, offers a very high immunity to surrounding light.

High EMC performance

A robust design in relation to efficient shielding of the sensitive components in the receiver ensures an excellent EMC performance.

Harsh environments

PD70 is encapsulated in a strong polycarbonate housing, which offers an IP67 protection against rain (e.g.).

Approvals

The PD70 series is designed according to the European and North American door standards. prEN16005, EN12445, EN12453, En12978 and UL325.



Benefits

Clear robust laser printing

LED indication

Receiver: yellow for output ON
Emitter: green for power ON

Colour code

- for easy installation
Emitter: red
Receiver: green

Fixed cable or M8 plug

Easy mounting

Mounting holes for self cutting 2.9 x 10 mm or M3 through hole screws. (A double-adhesive piece of tape to fix the sensor while mounting the screw is included).

Small compact housing

11.5 x 11.5 x 70 mm
- fits into narrow aluminium door frames

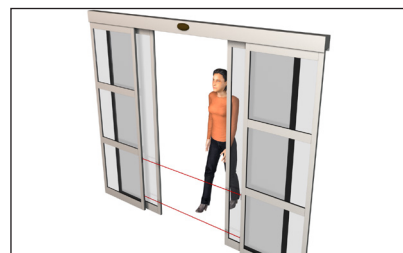
Aspherical lens design

The highly efficient aspherical lens geometry allows an increased sensing distance of up to 12 m while maintaining a wide viewing angle within the +/- 5° demanded by the ESPE2 requirements - even at maximum distance.

Metal shield

The sensitive components in the receiver is covered by a metal shield for high EMC immunity. Furthermore, the shield functions as aperture for the received beam.

Applications



Specifications

PD70	Mute low				Mute high	
	Receiver NPN, NO	Receiver NPN, NC	Receiver PNP, NO	Receiver PNP, NC	Emitter	Emitter
Plug M8	PD70CNT12NO	PD70CNT12NC	PD70CNT12PO	PD70CNT12PC	PD70CNT12ML	PD70CNT12MH
Cable 5 m	PD70CNT12NOM5	PD70CNT12NCM5	PD70CNT12POM5	PD70CNT12PCM5	PD70CNT12M5ML	PD70CNT12M5MH
Rated operating distance (S _n)	12 m					
Rated operational voltage	10 to 30 V DC, Ripple included					
Supply current	≤ 16 mA				≤ 20 mA	
Output current (I _o)	Continuous ≤ 100 mA Short-time ≤ 100 mA (max. Load capacity 100 nF)				-	
Voltage drop (U _d)	≤ 1.8 V DC @ 100 mA				-	
Sensor protection	Shortcircuit, reverse polarity and transients				Reverse polarity and transients	
Response time	OFF-ON < 5 ms, ON-OFF < 5 ms				-	
Led indications	Output ON (Yellow LED)				Power ON (Green LED)	
Degree of protection	IP67					
Ambient temperature	Operating: -25 to +55°C (-13 to +131°F), Storage: -40 to +70°C (-40 to +158°F)					
Optical angle	± 5°					
Ambient light	≤ 100.000 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	-				Infrared LED, modulated	
Material	Housing: PC black, Backpart receiver: PC green, Backpart emitter: PC red					
Cable / Connector	PVC, TX:grey/RX.black, 5 m, 3 x 0.145mm ² , Ø=2.9 mm / M8 - 3 pole					
Dimensions / Weight	11.5 x 11.5 x 70 mm / Cable 90 g, Plug 20 g					

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