

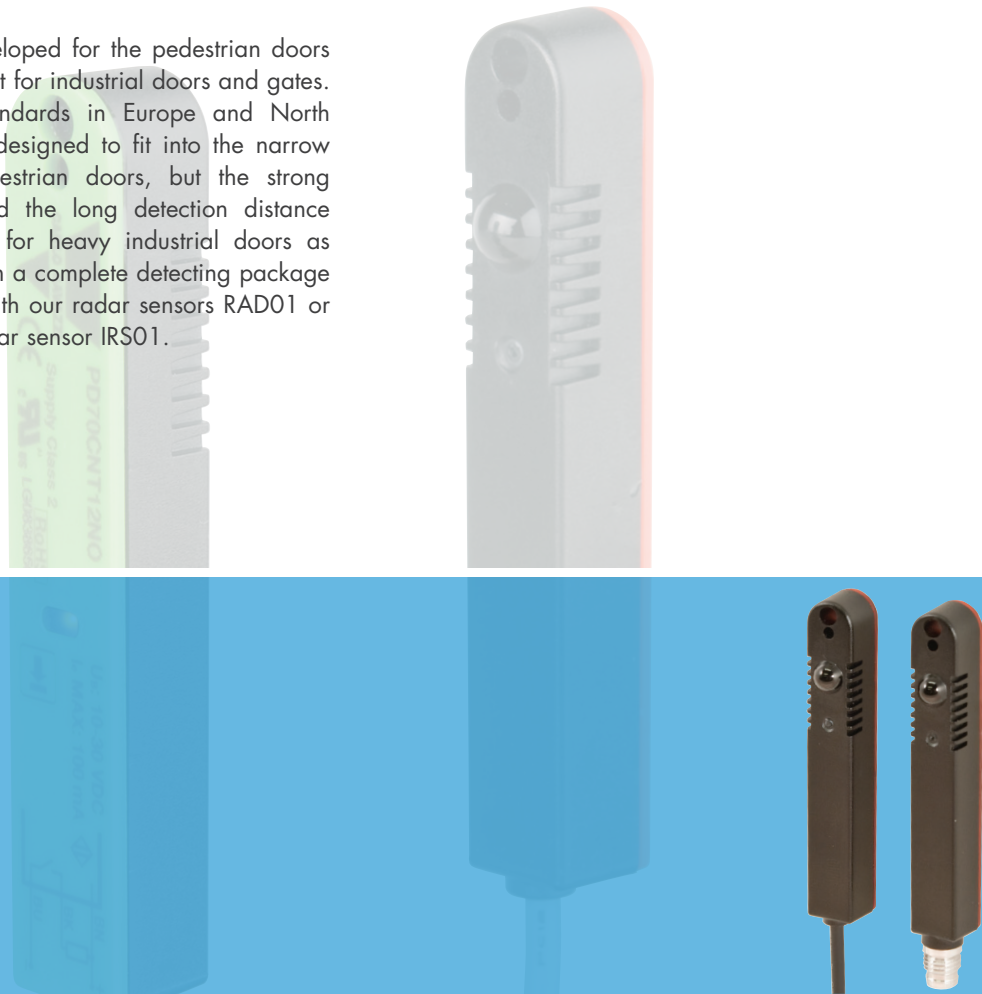
PD70 Series - Photoelectric sensors

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

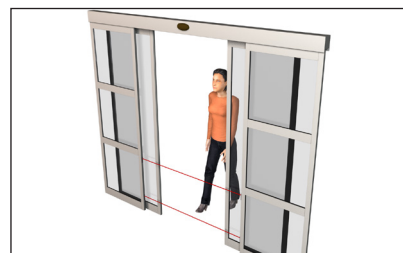
Aspherical lens design

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					

OUR SALES NETWORK IN EUROPE

AUSTRIA

Carlo Gavazzi GmbH
Ketzergasse 374,
A-1230 Wien
Tel: +43 1 888 4112
Fax: +43 1 889 10 53
office@carlogavazzi.at

BELGIUM

Carlo Gavazzi NV/SA
Mechelsesteenweg 311,
B-1800 Vilvoorde
Tel: +32 2 257 4120
Fax: +32 2 257 41 25
sales@carlogavazzi.be

DENMARK

Carlo Gavazzi Handel A/S
Over Hadstenvej 40,
DK-8370 Hadsten
Tel: +45 89 60 6100
Fax: +45 86 98 15 30
handel@gavazzi.dk

FINLAND

Carlo Gavazzi OY AB
Ahventie, 4 B
FI-02170 Espoo
Tel: +358 9 756 2000
myynti@gavazzi.fi

FRANCE

Carlo Gavazzi Sarl
Zac de Paris Nord II, 69, rue de la Belle Etoile,
F-95956 Roissy CDG Cedex
Tel: +33 1 49 38 98 60
Fax: +33 1 48 63 27 43
french.team@carlogavazzi.fr

GERMANY

Carlo Gavazzi GmbH
Pfnorstr. 10-14
D-64293 Darmstadt
Tel: +49 6151 81000
Fax: +49 6151 81 00 40
info@gavazzi.de

GREAT BRITAIN

Carlo Gavazzi UK Ltd
4.4 Frimley Business Park,
Frimley, Camberley, Surrey GU16 7SG
Tel: +44 1 276 854 110
Fax: +44 1 276 682 140
sales@carlogavazzi.co.uk

ITALY

Carlo Gavazzi SpA
Via Milano 13,
I-20045 Lainate
Tel: +39 02 931 761
Fax: +39 02 931 763 01
info@gavazziacbu.it

NETHERLANDS

Carlo Gavazzi BV
Wijkermeerweg 23,
NL-1948 NT Beverwijk
Tel: +31 251 22 9345
Fax: +31 251 22 60 55
info@carlogavazzi.nl

NORWAY

Carlo Gavazzi AS
Melkeveien 13,
N-3919 Porsgrunn
Tel: +47 35 93 0800
Fax: +47 35 93 08 01
posti@gavazzi.no

PORTUGAL

Carlo Gavazzi Lda
Rua dos Jerónimos 38-B,
P-1400-212 Lisboa
Tel: +351 21 361 7060
Fax: +351 21 362 13 73
carlogavazzi@carlogavazzi.pt

SPAIN

Carlo Gavazzi SA
Avda. Iparraguirre, 80-82,
E-48940 Leioa (Bizkaia)
Tel: +34 94 480 4037
Fax: +34 94 431 6081
gavazzi@gavazzi.es

SWEDEN

Carlo Gavazzi AB
V:a Kyrkogatan 1,
S-652 24 Karlstad
Tel: +46 54 85 1125
Fax: +46 54 85 11 77
info@carlogavazzi.se

SWITZERLAND

Carlo Gavazzi AG
Verkauf Schweiz/Vente Suisse
Sumpfstrasse 3,
CH-6312 Steinhausen
Tel: +41 41 747 4535
Fax: +41 41 740 45 40
info@carlogavazzi.ch

OUR SALES NETWORK IN THE AMERICAS

USA

Carlo Gavazzi Inc.
750 Hastings Lane,
Buffalo Grove, IL 60089, USA
Tel: +1 847 465 6100
Fax: +1 847 465 7373
sales@carlogavazzi.com

CANADA

Carlo Gavazzi Inc.
2660 Meadowvale Boulevard,
Mississauga, ON L5N 6M6, Canada
Tel: +1 905 542 0979
Fax: +1 905 542 22 48
gavazzi@carlogavazzi.com

MEXICO

Carlo Gavazzi Mexico S.A. de C.V.
Circuito Puericultores 22, Ciudad Satelite
Naucalpan de Juarez, Edo Mex. CP 53100
Mexico
T +52 55 5373 7042
F +52 55 5373 7042
mexicosales@carlogavazzi.com

BRAZIL

Carlo Gavazzi Automação Ltda.
Av. Francisco Matarazzo, 1752
Conj 2108 - Barra Funda - São Paulo/SP
Tel: +55 11 3052 0832
Fax: +55 11 3057 1753
info@carlogavazzi.com.br

OUR SALES NETWORK IN ASIA AND PACIFIC

SINGAPORE

Carlo Gavazzi Automation Singapore Pte. Ltd.
61 Tai Seng Avenue #05-06
Print Media Hub @ Paya Lebar iPark
Singapore 534167
Tel: +65 67 466 990
Fax: +65 67 461 980
info@carlogavazzi.com.sg

MALAYSIA

Carlo Gavazzi Automation (M) SDN. BHD.
D12-06-G, Block D12,
Pusat Perdagangan Dana 1,
Jalan PJU 1A/46, 47301 Petaling Jaya,
Selangor, Malaysia.
Tel: +60 3 7842 7299
Fax: +60 3 7842 7399
sales@gavazzi-asia.com

CHINA

Carlo Gavazzi Automation
(China) Co. Ltd.
Unit 2308, 23/F.,
News Building, Block 1, 1002
Middle Shennan Zhong Road,
Shenzhen, China
Tel: +86 755 83699500
Fax: +86 755 83699300
sales@carlogavazzi.cn

HONG KONG

Carlo Gavazzi Automation
Hong Kong Ltd.
Unit No. 16 on 25th Floor, One Midtown,
No. 11 Hoi Shing Road, Tsuen Wan,
New Territories, Hong Kong
Tel: +852 26261332 / 26261333
Fax: +852 26261316

TAIWAN

Branch of Carlo Gavazzi Automation
Singapore Pte. Ltd.
22F-1, No. 500 Shinzheng Rd,
Xitun Dist, Taichung City,
Taiwan, China
Tel. +886 4 2258 4001
Fax +886 4 22584 4002

OUR COMPETENCE CENTRES AND PRODUCTION SITES

DENMARK

Carlo Gavazzi Industri A/S
Hadsten

MALTA

Carlo Gavazzi Ltd
Zejtun

ITALY

Carlo Gavazzi Controls SpA
Belluno

LITHUANIA

Uab Carlo Gavazzi Industri Kaunas
Kaunas

CHINA

Carlo Gavazzi Automation (Kunshan) Co., Ltd.
Kunshan

HEADQUARTERS

Carlo Gavazzi Automation SpA
Via Milano, 13
I-20045 - Lainate (MI) - ITALY
Tel: +39 02 931 761
info@gavazziautomation.com

Energy to Components!

www.gavazziautomation.com