

PD98 Series - Photoelectric sensors

Sensors

PD98 Series

Photoelectric sensors for door applications

The PD98 sensor is developed specifically for the domestic and industrial door market. The sensor meets the new regulations for industrial doors in Europe. The compact size of the outdoor sensor allows easy on-wall-mounting without building the sensor into the wall. The sensor is easy to use and no sensitivity adjustments are necessary.

The spherical lens design is superior to previous design of sensors with built-in parabolic reflectors that had corrosion and dust problems.

Increased safety by built-in sensor test function. The emitter has a built-in test input designed to mute the emitter and thus evaluate the sensor function. Test function is to be activated by the door controller.

High neighbour immunity can be achieved using the synchronization feature.



The Optimum Sensor for Doors and Gates

User-Friendly

The PD98 sensor is easy to use and no adjustments are necessary. The aspherical lens design is superior to previous sensor designs with built-in parabolic reflectors, thus eliminating corrosion and dust problems.

Diagnostic Warning

Increased safety by a built-in sensor test function. The sensor has a built-in mute input designed to switch off the emitter, which allows for door control systems to verify the sensor function.

High Neighbour Immunity

Using AC supply, high neighbour immunity can be obtained by reversing the phase on two sensor sets and applying connection on the PCB pattern named SYNC. Any crosstalk between two pairs of sensors is hereby prevented.

Strong Housing

Produced in a stylish and durable polycarbonate housing, which protects against splashing water (IP54).

Item numbers

Receiver and emitter **PD98CNT30QMU**

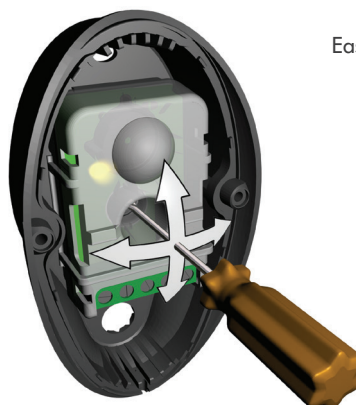
Approvals

EMC directive 89/336/ECC,
European Door Standards: EN12445, EN12453, EN12978 and UL325.



Benefits

- Fulfills the door safety standards (ESPE type 2)
- Easy mechanical adjustment $\pm 15^\circ$
- Durable polycarbonate housing
- No crosstalk (with AC-supply)
- Low power consumption
- Protection against splashing water (IP54)
- Mute input
- Stylish design
- Screw terminal cable connection



Easy mechanical adjustment $\pm 15^\circ$

Applications

- Sliding gates
- Folding doors
- Sectional doors
- Up and over doors
- Etc.



Specifications

	Emitter	Receiver
Ordering number	PD98CNT30QMU (Emitter + Receiver)	
Rated operating dist. (S_n)	15 m or 30 m	
Optical sensing angle	$\pm 5^\circ$	
Light source	LED, 880 nm	-
Light type	Infrared, modulated	-
Rated operational voltage	12 to 24 VAC/VDC	
No load supply current	-	≤ 30 mA
Power on delay (U_d)	-	≤ 300 ms
Sensor protection	Reverse polarity and transients	
Response time	-	OFF-ON < 20 ms, ON-OFF < 20 ms
LED indications	-	Yellow LED: Output ON
Degree of protection	IP54 (IEC 60529, 60947-1)	
Ripple (U_{rip})	≤ 10 %	
Ambient temperature	Operating: -20 to $+60^\circ\text{C}$ (-4 to $+140^\circ\text{F}$), Storage: -25 to $+80^\circ\text{C}$ (-13 to $+176^\circ\text{F}$)	
Mechanical adjustment	$\pm 15^\circ$	
CE marking	EN12445, EN12453, EN12978	
Approvals	cURus (UL325), CSA-C22.2No.247	
Overvoltage category	II (IEC60664/60947-1)	
Pollution degree	3 (IEC60664, 60664A, EN60947-1)	
Vibration	10 to 150 Hz, 0.5 mm/7.5 g (IEC 60068-2-6)	
Shock	2 x 1 m & 100 x 0.5 m (IEC 60068-2-32)	
Material	Front: PC black, Backpart: ABS	
Connection	3 pole terminal block	5 pole terminal block
Dimensions / Weight	37 x 56 x 98 mm / 185 g set	

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