Photoelectrics Retro-reflective, Industrial Door Market Type PMP12.M, Polarized, Relay Output, Mute Input





- Range: 12 m
- Modulated, visible light, polarized
- . Make or break switching function (switch selectable)
- Make or break Mute function (switch selectable)
- LED-indication for target detected
- Multi supply voltage:
 24 VDC and 24 VAC, 50/60 Hz
- 25 x 65 x 81 mm reinforced PC/ABS- housing, IP 67
- NO and NC output
- High EMC immunity
- CE, UL325 and UL508 approved



Product Description

The PMP12.. is a powerfull polarized retro reflective sensor. The sensor is designed to meet the hash requirements in industrial environments. With a sensing distance at 12 m the sensor is usefull in applications where dust and weather conditions will influence on the sensing distance. The sensor

sor is made in a strong glass reinforced PC/ABS housing with two cable glands for easy connection.

With Mute Input on the transmitter the sensor fullfill European and North American regulations for Industrial doors

Ordering Key

PMP12RGM

| Type family — | | |
|----------------------|-------|---|
| Type — | _ _ | |
| Sensing distance (m) | | |
| Output relay — | | _ |
| Cable gland type — | | |
| Mute input | | |

Type Selection

| Housing W x H x D | Range (S _n) | Ordering no. without timer |
|---|----------------------------|----------------------------|
| 25 x 65 x 81 PG 13.5 cable gland 1/2" NPT cable gland | 12 m 12 m | PMP 12 RGM PMP 12 RIM |

Specifications

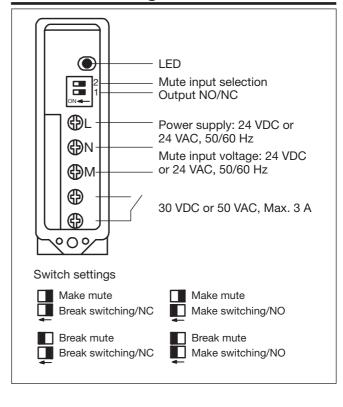
| Rated operating dist. (S _n) (0 to 5,000 lux) | 12 m with reflector type ER 4, | Dielectric voltage | 2,000 VAC (rms) (cont./supply) | |
|--|-----------------------------------|---|---|--|
| Blind zone | ref. target ≤ 0.15 m | Light source Light type | GaAlAs, LED, 660 nm Visible, modulated | |
| Sensitivity | Fixed | Optical angle | ± 1.5° | |
| Temperature drift | ≤ 0.4 %/°C | Light spot size Ambient light | 280 mm at 4 m Max. 5'000 lux | |
| Differential travel (H) Hysteresis | 3 to 20% | Operating frequency | 20 Hz | |
| Rated operational volt. (U _B) AC: 45 to 65 Hz | 24 VDC ± 20% 24 VAC ± 20% | Response time (object related) OFF-ON (ton) ON-OFF (toff) | ≤ 20 ms ≤ 30 ms | |
| Rated operational power (relay ON) | ≤ 1 W (1.2 VA) | Power ON delay (t _v) | ≤ 300 ms (typ. 100 ms) | |
| Output | tput Output function | | Switch selectable, make or break switching | |
| Contact ratings (AgCdO) Resistive loads AC 1 DC 1 3 A/250 VAC 3 A/30 VDC Small inductive loads AC 15 DC 13 3 A/30 VDC Mechanical life (typical) Electrical life (typical) Electrical life (typical) Electrical life (typical) AC 15 DC 13 A/30 VDC ≥ 40 x 10 ⁶ operations ≥ 5 x 10 ⁵ operations at 220 VAC - 3 A resistive load: 360 impulses/h | | Mute function Make on Response time output off Make off Response time output on Break on Response time output off Break off Response time output on | Switch selectable ≥ 4 VDC/VAC < 20 ms < 2 VDC/VAC < 45 ms < 2 VDC/VAC < 45 ms ≥ 4 VDC/VAC < 20 ms | |



Specifications (cont.)

| | • | | |
|---------------------------|--|--|--|
| Max current | 10 mA @ 24 VDC 16 mA @ 24 VAC | | |
| Indication | | | |
| Target detected | LED, yellow | | |
| Environment | | | |
| Overvoltage category | III (IEC 60664/60664A; 60947-1) | | |
| Pollution degree | 3 (IEC 60664/60664A; 60947-1) | | |
| Degree of protection | IP 67 (IEC 60529; 60947-1) | | |
| Temperature | | | |
| Operating | -25° to +55°C (-13° to +131°F) | | |
| Storage | -30° to +80°C (-22° to +176°F) | | |
| 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) | | |
| Rated insulation voltage | 250 VAC (rms) | | |
| Housing material | | | |
| Body | PC/ABS, grey | | |
| Front | PMMA, red | | |
| Cover | PC, black | | |
| Cable gland | PA, black, reinforced | | |
| Mounting bracket | Steel, galvanized | | |
| Connection | | | |
| Screw terminal | 5 x 2 x 1 mm ² | | |
| Cable gland | PG 13.5 or 1/2" NPT for cable 6 to 10 mm | | |
| Weight | 110 g | | |
| UL-Approval c % us | UL325, CSA-C22.2 No.247 | | |
| c (L) us | UL508 | | |
| CE-marking | Yes | | |
| | EN12453, EN12445, EN12978 | | |

Connection Diagram

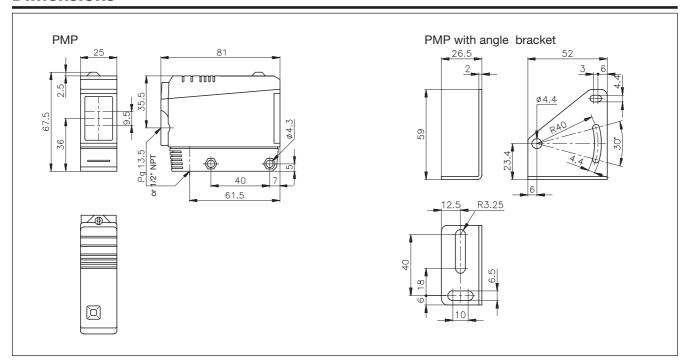


Operation Diagram

| tv = Power ON delay | | | | | |
|-----------------------|----------------|--|----------------|----------------------|---|
| Power supply | | | | | |
| Target present | | | | | |
| Object present | | | | | 1 |
| Mute (transmitter ON) | | | | | |
| Output NO | | | t _v | Mute function active | |
| Output NC | t _v | | | | 1 |



Dimensions



Delivery Contents

- Photoelectric switch: PMP12..
- Cable gland
- Installation instruction
- Mounting bracket
- Packaging: Cardboard box

Accessories

- Reflectors: ER series
- MB02 (longer mounting bracket)

For further information refer to "Accessories".