Photoelectrics Retro-reflective, Polarized, Relay Output Type PMP12..





- Range: 12 m
- Modulated, visible light, polarized
- . Make or break switching function (switch selectable)
- LED-indication for target detected
- Multi supply voltage:
 12 to 240 VDC and
 24 to 240 VAC, 50/60 Hz
- 25 x 65 x 81 mm reinforced PC/ABS- housing, IP 67
- NO and NC output
- High EMC immunity
- UL, CSA and CE







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

Ordering Key

PMP12RG

| Type family Type Sensing distance (m) Output relay | | |
|--|----------------------|--|
| Sensing distance (m) | Type family — | |
| • | Type — | |
| Output relay | Sensing distance (m) | |
| | Output relay | |
| Cable gland type — | . , | |

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 RG PMP 12 RI |

Specifications

| Rated operating dist. (S _n) (0 to 5,000 lux) | 12 m with reflector type ER 4, ref. target |
|--|--|
| Blind zone | ≤ 0.15 m |
| Sensitivity | Fixed |
| Temperature drift | ≤ 0.4 %/°C |
| Differential travel (H) Hysteresis | 3 to 20% |
| Rated operational volt. (U _B) | 10.8 to 264 VDC 21.6 to 264 VAC, 45 to 65 Hz |
| Rated operational power (relay ON) | ≤ 2 W (2.5 VA) |
| Output Contact ratings (AgCdO) Resistive loads AC 1 DC 1 Small inductive loads AC 15 DC 13 Mechanical life (typical) Electrical life (typical) | µ (micro gap) 3 A/250 VAC 3 A/30 VDC 2 A/250 VAC 3 A/30 VDC ≥ 40 x 10 ⁶ operations ≥ 5 x 10 ⁵ operations at 220 VAC - 3 A resistive load: 360 impulses/h |
| Dielectric voltage | 2,000 VAC (rms) (cont./supply) |
| Light source | GaAlAs, LED, 660 nm |
| Light type | Visible, modulated |

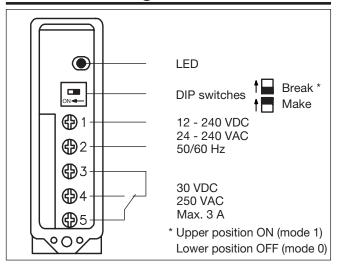
| Optical angle | ± 1.5° |
|----------------------------------|--|
| Light spot size | 280 mm at 4 m |
| Ambient light | Max. 5'000 lux |
| Operating frequency | 20 Hz |
| Response time | |
| OFF-ON (t _{ON}) | ≤ 20 ms |
| ON-OFF (t _{OFF}) | ≤ 30 ms |
| Power ON delay (t _v) | ≤ 300 ms (typ. 100 ms) |
| Output function | Switch selectable, make or break switching |
| 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) |



Specifications (cont.)

| | • |
|--|--|
| Housing material Body Front Cover Cable gland Mounting bracket | PC/ABS, grey PMMA, red PC, black PA, black, reinforced Steel, galvanized |
| Connection Screw terminal Cable gland | 5 x 2 x 1 mm ² PG 13.5 or 1/2" NPT for cable 6 to 10 mm |
| Weight | 110 g |
| Approvals | UL, CSA |
| CE-marking | Yes |

Connection Diagram



Operation Diagram

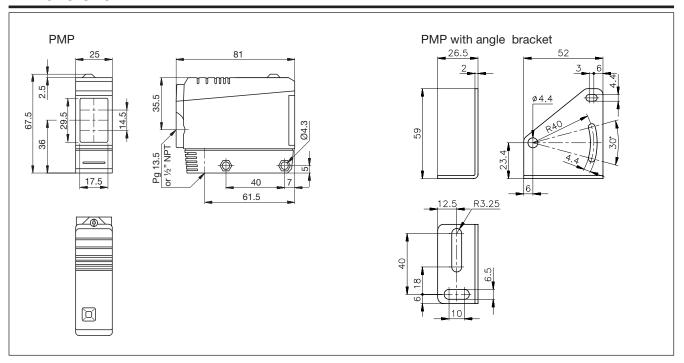
t = Time delay

tv = Power ON delay

Power supply

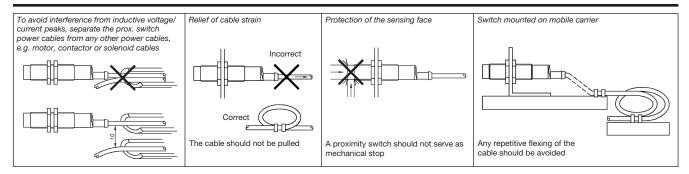
Target present
Object present

Dimensions





Installation Hints



Delivery Contents

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

Accessories

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

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