Photoelectrics Retro-reflective, Polarized 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

Cable gland type

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**

Type Selection

| Housing | Range | Ordering no. |
|---|-------------------|------------------------|
| W x H x D | (S _n) | 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

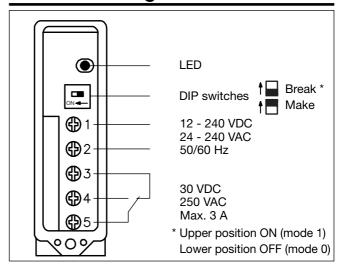
| Rated operating dist. (S _n) (0 to 5,000 lux) | 12 m with reflector type ER 4, ref. target | Optical angle Light spot size Ambient light | ± 1.5° 280 mm at 4 m Max. 5'000 lux |
|--|---|--|--|
| Blind zone | ≤ 0.15 m | Operating frequency | 20 Hz |
| Sensitivity | Fixed | Response time | |
| Temperature drift | ≤ 0.4 %/°C | OFF-ON (t _{ON}) ON-OFF (t _{OFF}) | ≤ 20 ms ≤ 30 ms |
| Differential travel (H) Hysteresis | 3 to 20% | Power ON delay (t _v) | ≤ 300 ms (typ. 100 ms) |
| Rated operational volt. (U _B) | 10.8 to 264 VDC 21.6 to 264 VAC, 45 to 65 Hz | Output function | Switch selectable, make or break switching |
| Rated operational power (relay ON) | ≤ 2 W (2.5 VA) | Indication Target detected | LED, yellow |
| Output Contact ratings (AgCdO) Resistive loads AC 1 DC 1 Small inductive loads AC 15 DC 13 | μ (micro gap) 3 A/250 VAC 3 A/30 VDC 2 A/250 VAC | Environment Overvoltage category Pollution degree Degree of protection | III (IEC 60664/60664A; 60947-1) 3 (IEC 60664/60664A; 60947-1) IP 67 (IEC 60529; 60947-1) |
| Mechanical life (typical) Electrical life (typical) | ≥ 40 x 10 ⁶ operations ≥ 5 x 10 ⁵ operations at 220 VAC - 3 A resistive load: 360 impulses/h | Temperature Operating Storage Vibration | -25° to +55°C (-13° to +131°F -30° to +80°C (-22° to +176°F 10 to 150 Hz, 0.5 mm/7.5 g |
| Dielectric voltage | 2,000 VAC (rms) (cont./supply) GaAlAs, LED, 660 nm | Shock | (IEC 60068-2-6) 2 x 1 m & 100 x 0.5 m (IEC 60068-2-32) |
| Light source Light type | Visible, modulated | 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

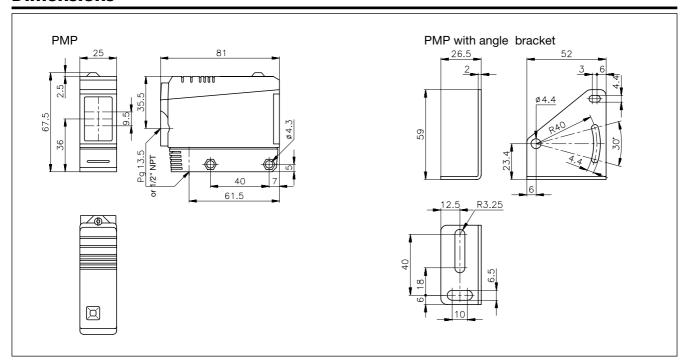
tv = Power ON delay

Power supply

Target present

Object present

Dimensions





Delivery Contents

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

Accessories

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

For further information refer to "Accessories".