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 —	
Sensing distance (m)	
Output relay ————————————————————————————————————	

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)

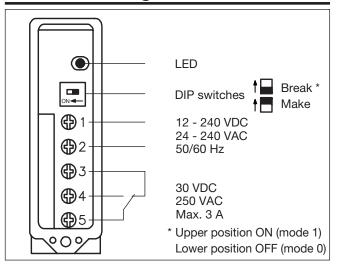


Specifications (cont.)

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 Approvals	110 g UL, CSA

Yes

Connection Diagram



Operation Diagram

t = Time delay

CE-marking

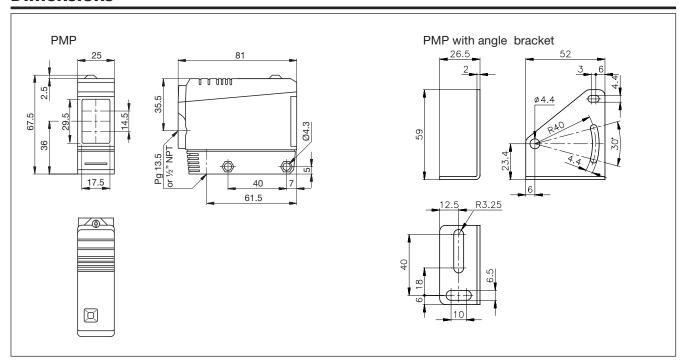
tv = Power ON delay

Power supply

Target present

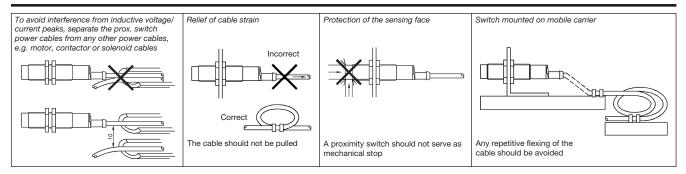
Dimensions

Object present





Installation Hints



Delivery Contents

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

Accessories

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Carlo Gavazzi:

PMP12RG PMP12RI