Product Description Orde

12 m

12 m

12 m

ref. target

≤ 0.15 m Fixed

≤ 0.4 %/°C

3 to 20%

10.8 to 264 VDC

≤ 2 W (2.5 VA)

μ (micro gap) 3 A/250 VAC

3 A/30 VDC

2 A/250 VAC

 \geq 40 x 10⁶ operations

 $\ge 5 \times 10^5$ operations

3 A/30 VDC

21.6 to 264 VAC, 45 to 65 Hz

with reflector type ER 4,

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 applica-

Type Selection

Housing

WxHxD

25 x 65 x 81

tions 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.

Range	Ordering no.
(S _n)	without timer

Specifications

Differential travel (H) Hysteresis

Rated operational volt. (U_B)

Rated operational power

Contact ratings (AgCdO)

Mechanical life (typical)

Electrical life (typical)

Small inductive loads AC 15

(0 to 5,000 lux)

Blind zone

Sensitivity Temperature drift

(relay ON)

Resistive loads

Output

Rated operating dist. (Sn)

PG 13.5 cable gland

1/2" NPT cable gland

	load: 360 impulses/h
Dielectric voltage	2,000 VAC (rms) (cont./supply)
Light source	GaAlAs, LED, 660 nm
Light type	Visible, modulated

AC 1 DC 1

DC 13

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

PMP12RG

- NO and NC output
- High EMC immunity
- UL, CSA and CE



Ordering Key

PMP 12 RG

PMP 12 RI

Type family	
Туре	
Sensing distance (m)	
Output relay	
Cable gland type —	

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}) ON-OFF (t _{OFF}) Power ON delay (t _v)	≤ 20 ms ≤ 30 ms ≤ 300 ms (typ. 100 ms)			
Output function	Switch selectable, make or break switching			
Indication Target detected	LED, yellow			
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)			
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 (IEC 60068-2-6)			
Shock	2 x 1 m & 100 x 0.5 m (IEC 60068-2-32)			
Rated insulation voltage	250 VAC (rms)			



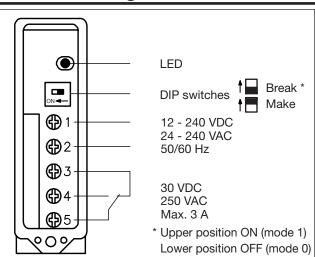




Specifications (cont.)

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 mm² PG 13.5 or 1/2" NPT for cable 6 to 10 mm
Weight	110 g
Approvals	UL, CSA
CE-marking	Yes

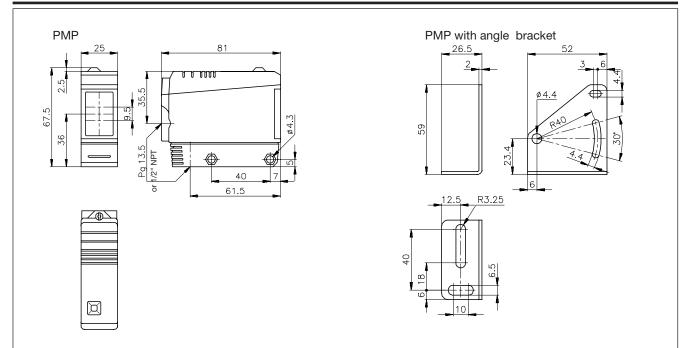
Connection Diagram



Operation Diagram

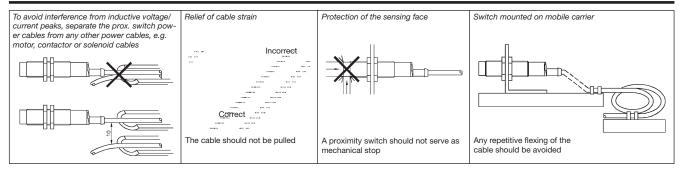
t = Time delay tv = Power ON delay				
Power supply				
Target present				
Object present				

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)