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



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.

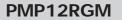
With Mute Input on the transmitter the sensor fullfill European and North American regulations for Industrial doors

•	Range: 12 m	۱
	Modulated	

- 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
 UL, CSA and CE



Ordering Key



Type family _______ Type ______ Sensing distance (m) ______ Output relay ______ Cable gland type _____ Mute input _____

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 RGM PMP 12 RIM		

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) AC: 45 to 65 Hz	24 VDC ± 20% 24 VAC ± 20%			
Rated operational power (relay ON)	≤ 1 W (1.2 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			

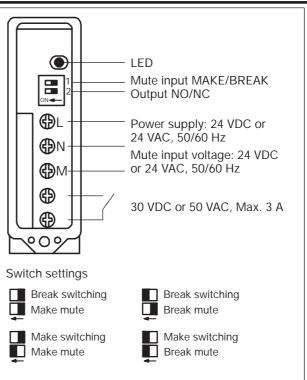
Dielectric voltage	2,000 VAC (rms) (cont./supply)			
Light source	GaAlAs, LED, 660 nm			
Light type	Visible, modulated			
Optical angle	± 1.5°			
Light spot size	280 mm at 4 m			
Ambient light	Max. 5'000 lux			
Operating frequency	20 Hz			
Response time (object related)				
OFF-ON (ton)	≤ 20 ms			
ON-OFF (t _{OFF})	≤ 30 ms			
Power ON delay (t _v)	≤ 300 ms (typ. 100 ms)			
Output function	Switch selectable, make or break switching			
Mute function	Switch selectable			
Make on	≥ 4 VDC/VAC			
Response time output off	< 20 ms			
Make off	< 2 VDC/VAC			
Response time output on	< 45 ms			
Break on	< 2 VDC/VAC			
Response time output off	< 45 ms			
Break off	> 4 VDC/VAC			
Response time output on	< 20 ms			
Response line output on	< 201115			

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Specifications (cont.)

Max current	10 mA @ 24 VDC			
wax 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;			
r ollation degree	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			
Approvals	UL, CSA			
CE-marking	Yes			
	EN12453, EN12445,			
	EN12978			

Connection Diagram

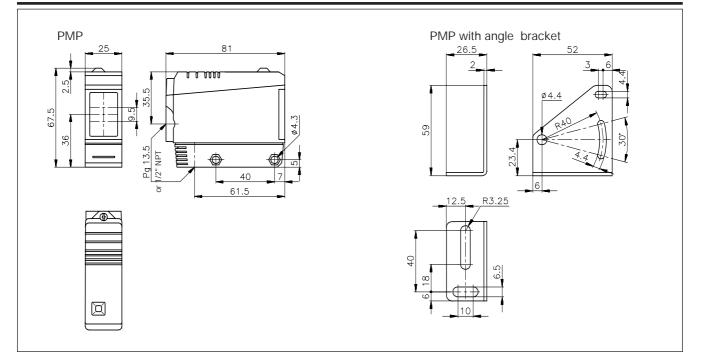


Operation Diagram

tv = Power ON delay					
Power supply					
Target present					
Object present]			
Mute (transmitter ON)					
Output NO					
Output NC	tv				



Dimensions



Delivery Contents

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

Accessories

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

For further information refer to "Accessories".