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



- Range: 12 m
- 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
- CE, UL325 and UL508 approved



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

Ordering Key

PMP12RGM

	-	-
Type family ————		
3.		
Type ————		
Sensing distance (m)		
• ,		
Output relay ————		
Cable gland type ———		_
Mute input —		
mute iliput		

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 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 \geq 40 x 10 ⁶ operations \geq 5 x 10 ⁵ operations at 220 VAC - 3 A resistive load: 360 impulses/h		

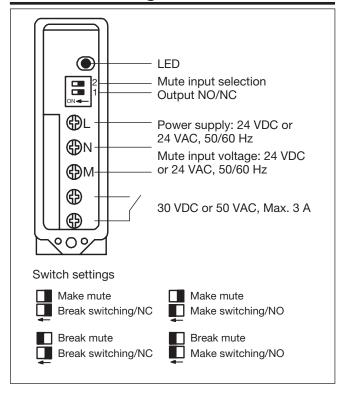
Dielectric voltage	2,000 VAC (rms)	
Ü	(cont./supply)	
Light source	GaAlAs, LED, 660 nm	
Light type	Visible, modulated	
Optical angle	± 1.5°	
Light spot size	280 mm at 4 m	
Ambient light	Max. 5'000 lux	
		
Operating frequency	20 Hz	
Response time (object related)		
OFF-ON (t _{on})	≤ 20 ms	
ON-OFF (t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



Specifications (cont.)

Max 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; 60947-1)		
Degree of protection		IP 67 (IEC 60529; 60947-1)		
Temperature				
Operating Storage		-25° to +55°C (-13° to +131°F) -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	е	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		
UL-Approval c	URus	UL325, CSA-C22.2 No.247		
(cULus	UL508		
CE-marking		Yes		
v		EN12453, EN12445, EN12978		

Connection Diagram

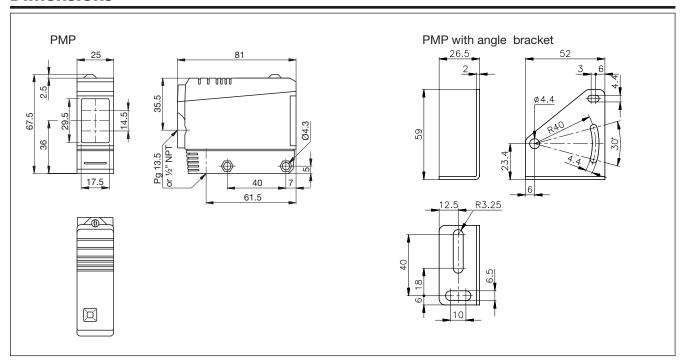


Operation Diagram

tv = Power ON delay			
Power supply			
Target present			
Object present			
Mute (transmitter ON)			
Output NO		t _V Mute function active	
Output NC	tv		



Dimensions



Delivery Contents

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

Accessories

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