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 —	
Type —	
Sensing distance (m)	
Output relay	
Cable gland type ———	
Mute input —	

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

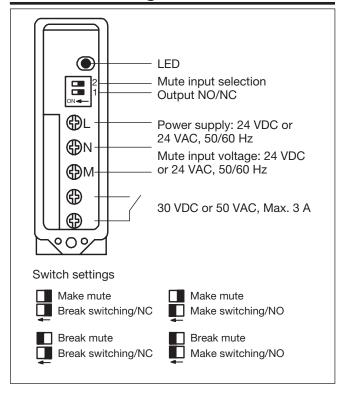
Dielectric voltage	2,000 VAC (rms) (cont./supply)
Light source	GaAlAs, LED, 660 nm
Light type	Visible, modulated
Optical angle	± 1.5°
Light spot size	280 mm at 4 m
Ambient light	Max. 5'000 lux
Operating frequency	20 Hz
Response time (object related) OFF-ON (t _{ON}) ON-OFF (t _{OFF})	≤ 20 ms ≤ 30 ms
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
Deenance time cutout on	< 45 ms
Response time output on	< 40 III0
Response time output on Break on	< 2 VDC/VAC
Break on	
Break on Response time output off	< 2 VDC/VAC < 45 ms
Break on	< 2 VDC/VAC



Specifications (cont.)

		40 40041/50	
Max current		10 mA @ 24 VDC 16 mA @ 24 VAC	
		16 MA @ 24 VAC	
Indication		150 "	
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 volta	ge	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	cURus	UL325, CSA-C22.2 No.247	
	cULus	UL508	
CE-marking		Yes	
-		EN12453, EN12445, EN12978	

Connection Diagram

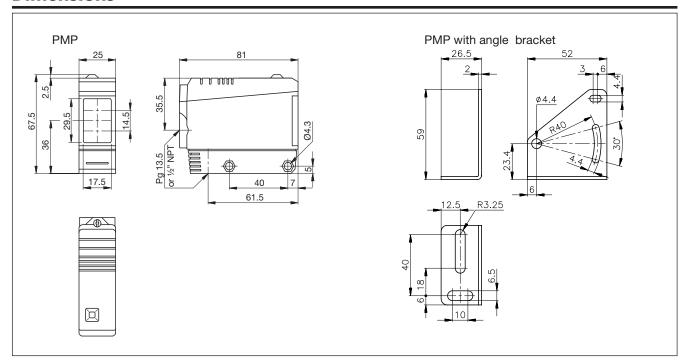


Operation Diagram

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

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