Photoelectrics Retro-reflective Type PMR18..



Product Description

The PMR18.. is a powerfull retro reflective sensor. The sensor is designed to meet the hash requirements in industrial environments. With a sensing distance of 18 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 connections.

•	Rai	nge:	18	m	

- Modulated, infrared light
- Make or break switching function (switch selectable)

PMR18RG

CARLO GAVAZZI

- 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 housing, IP 67
- NO and NC output
- High EMC immunity
- UL, CSA and CE

Ordering Key

Type family______ Type ______ Sensing distance ______ Output relay_____ Cable gland _____

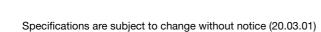
Type Selection

Housing W x H x D	Range S₁	Ordering no. without timer
25 x 65 x 81 PG 13.5 cable gland	18 m	PMR 18 RG
1/2" NPT cable gland	18 m	PMR 18 RI

Specifications

Rated operating dist. (S _n) (0 to 5,000 lux)	18 m with reflector type ER 4, ref. target		
Blind zone	≤ 0.20 m		
Temperature drift	≤0.4%/°C		
Differential travel (H)	3 to 20 %		
Rated operational volt. (U _B) (AC: 45 to 65 Hz)	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 Electrical life	\geq 40 x 10 ⁶ operations \geq 5 x 10 ⁵ operations at 220 VAC - 3 A resistive load: 360 impulses/h		
Dielectric voltage	2000 VAC rms (cont./supply)		
Sensitivity	Fixed		

Light source Light type Optical angle Ambient light	GaAlAs, LED, 880 nm Infrared, modulated ± 1.5° Max. 5'000 lux		
Operating frequency (f)	20 Hz		
Response time 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		
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)		

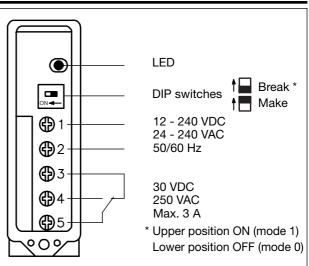




Specifications (cont.)

Vibration Shock	10 to 150 Hz, 0.5 mm/7.5 g (IEC 60068-2-6) 2 x 1 m & 100 x 0.5 m (IEC 60068-2-32)		
Rated insulation voltage	250 VAC (rms)		
Housing material Body Front Cover Cable gland Mounting bracket	PC, grey PC, black 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	110 g		
Approvals	UL, CSA		
CE-marking	Yes		

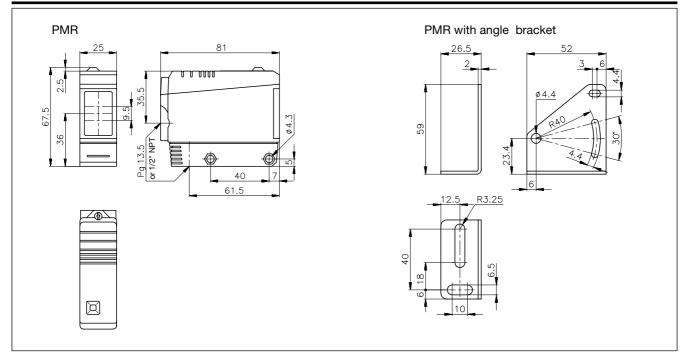
Connection Diagram



Operation Diagram

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

Dimensions





Delivery Contents

- Photoelectric switch: PMR18..
- Cable gland
- Installation instruction
- Mounting bracket
- Packaging: Cardboard box

Accessories

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

For further information refer to "Accessories"