

Photoelectrics Retro-reflective Type PMR18..

CARLO GAVAZZI



- Range: 18 m
- Modulated, infrared light
- 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 housing, IP 67
- NO and NC output
- High EMC immunity
- UL, CSA and CE

Product Description

The PMR18.. is a powerful retro reflective sensor. The sensor is designed to meet the harsh requirements in industrial environments. With a sensing distance of 18 m the sensor is useful 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.

Ordering Key

PMR18RG

Type family _____
 Type _____
 Sensing distance _____
 Output relay _____
 Cable gland _____

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	18 m	PMR 18 RG
1/2" NPT cable gland	18 m	PMR 18 RI

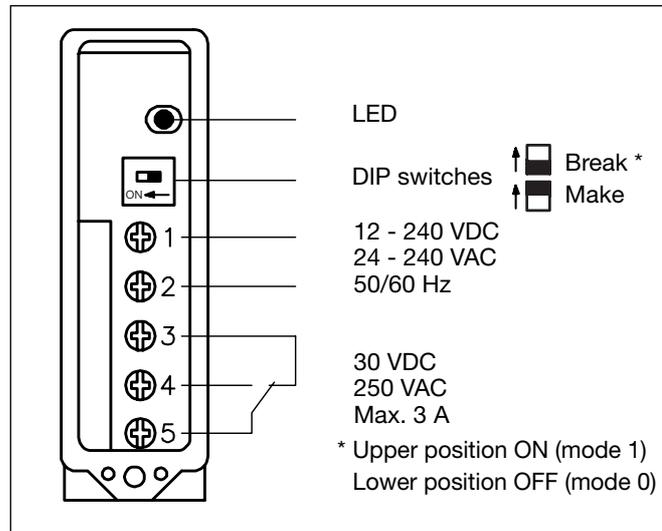
Specifications

Rated operating dist. (S _n) (0 to 5,000 lux)	18 m with reflector type ER 4, ref. target	Light source GaAlAs, LED, 880 nm
Blind zone	≤ 0.20 m	Light type Infrared, modulated
Temperature drift	≤ 0.4%/°C	Optical angle ± 1.5°
Differential travel (H)	3 to 20 %	Ambient light Max. 5'000 lux
Rated operational volt. (U _B) (AC: 45 to 65 Hz)	10.8 to 264 VDC 21.6 to 264 VAC, 45 to 65 Hz	Operating frequency (f)
Rated operational power (Relay ON)	≤ 2 W (2.5 VA)	Response time OFF-ON (t _{ON}) ON-OFF (t _{OFF})
Output		Power ON delay (t _v)
Contact ratings (AgCdO)	μ (micro gap)	Output function
Resistive loads	AC 1 3 A/250 VAC DC 1 3 A/30 VDC	Switch selectable, make or break switching
Small inductive loads	AC 15 2 A/250 VAC DC 13 3 A/30 VDC	Indication Target detected
Mechanical life	≥ 40 x 10 ⁶ operations	Environment
Electrical life	≥ 5 x 10 ⁵ operations at 220 VAC - 3 A resistive load: 360 impulses/h	Overvoltage category
Dielectric voltage	2000 VAC rms (cont./supply)	Pollution degree
Sensitivity	Fixed	Degree of protection
		Temperature
		Operating
		Storage

Specifications (cont.)

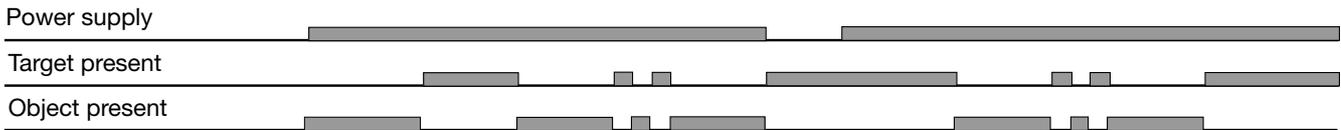
Vibration	10 to 150 Hz, 0.5 mm/7.5 g (IEC 60068-2-6)
Shock	2 x 1 m & 100 x 0.5 m (IEC 60068-2-32)
Rated insulation voltage	250 VAC (rms)
Housing material	
Body	PC, grey
Front	PC, black
Cover	PC, black
Cable gland	PA, black, reinforced
Mounting bracket	Steel, galvanized
Connection	
Screw terminal	5 x 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

Connection Diagram

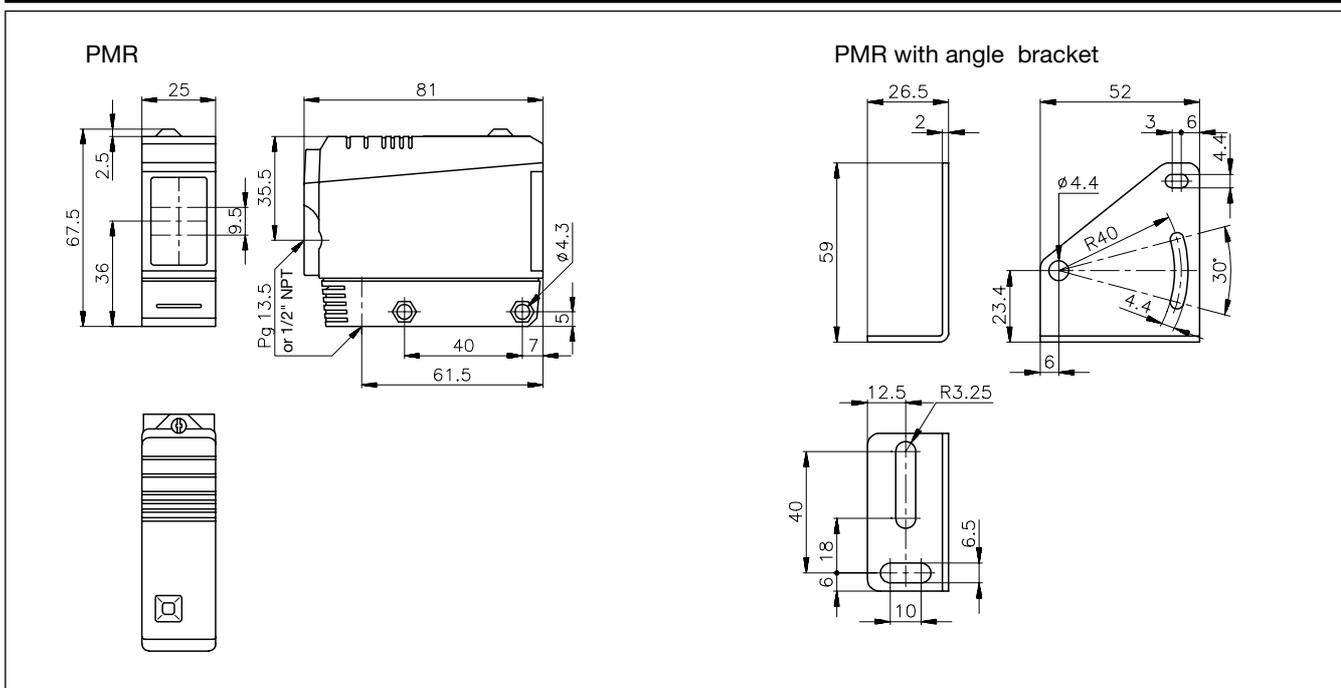


Operation Diagram

t = Time delay
tv = Power ON delay



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"