# Photoelectrics Retro-reflective, Polarized, Relay Output Type PMP





- Range: 6 m
- Modulated, visible light, polarized
- 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/ABS- housing, IP 67
- Timer options (adjustable)
- NO and NC output

## **Product Description**

Retro-reflective photoelectric switch with polarized light. Range up to 6 m. Fixed sensitivity. Immune to ambient light. Output function switch selectable. Protection degree IP 67. Screw terminal connection.

25 x 65 x 81 mm plastic housing. PG 13.5 or 1/2" NPT cable gland. Timer options: Delay on operate, delay on release, one shot (triggered on leading or trailing edge).

# Ordering Key Type Range Output Cable gland type Timer function

## **Type Selection**

Housing W x H x D	Range (S <sub>n</sub> )	Ordering no. with timer	
25 x 65 x 81 PG 13.5 cable gland 1/2" NPT cable gland	6 m 6 m	PMP 6R GT PMP 6R IT	

## **Specifications**

20 Hz	
≤ 20 ms	
≤ 30 ms	
≤ 300 ms (typ. 100 ms)	
Switch selectable, make or	
g	
LED, yellow	
60664A;	
,	
0664A;	
60947-1)	
29; 60947-1)	
·13° to +131°F)	
-30° to +80°C (-22° to +176°F)	



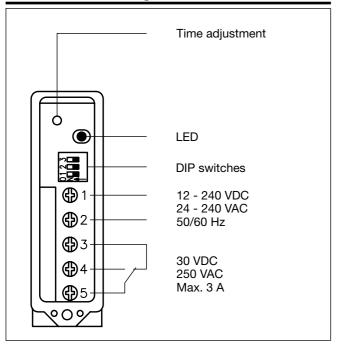
## **Specifications (cont.)**

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/ABS, grey PMMA, red PC, black PA, black, reinforced Steel, black		
Connection Screw terminal Cable gland	5 x 2 x 1 mm <sup>2</sup> PG 13.5 or 1/2" NPT for cable 6 to 10 mm		
Weight	110 g		
Approvals	UL, CSA		
CE-marking	Yes		

#### **Truth Table**

	Make s	witching	Break switching		
Object present	Yes	No	Yes	No	
LED	OFF	ON	OFF	ON	
Load	Non- active	Active	Active	Non- active	

## **Connection Diagram**



## **Selection of Function**

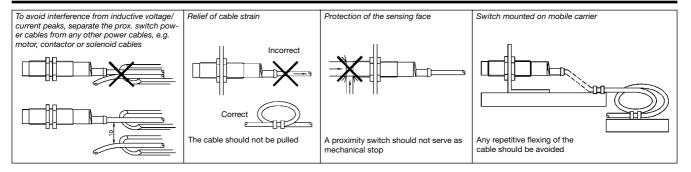
PMP 6R .



- 1 Delay on operate -Break switching
- 2 Delay on operate Make switching
- 3 Delay on release -Break switching
- 4 Delay on release -Make switching
- 5 One shot, trailing edge -Break switching
- 6 One shot, trailing edge Make switching
- 7 One shot, leading edge Break switching
- 8 One shot, leading edge Make switching

Upper postion ON (Mode 1) Lower position OFF (Mode 0)

#### **Installation Hints**



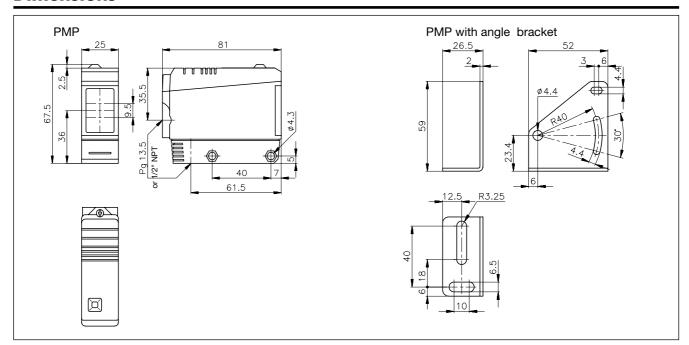


# **Operation Diagram**

t = Time delay tv = Power ON delay

Power supply						
Target present						
Object present				-		
Func 1. Output ON	⊢tv⊣					
Func 2. Output ON				⊢tv⊣		
Func 3. Output ON	⊢tv⊣	⊢ t ⊣	]			⊢ t ⊣
Func 4. Output ON		⊢ t ⊣	Ht- Ht-	⊢tv⊣	Ht- Ht-	⊢ t ⊣
Func 5. Output ON	⊢tv-I	— t		1	- t →	
Func 6. Output ON		⊢ t		⊢tv⊣	- t -       t -	
Func 7. Output ON	⊢tv⊣	— t	— — — t —	⊢tv⊣	-t- t-	
Func 8. Output ON		⊢ t	<u> </u>		-t-	
Func 9. Output ON	⊢tv⊣	⊢ t ⊣	⊢ ⊢ t ⊣	⊢tv⊣	<u> </u>	⊢ t ⊣
Func 10. Output ON		⊢ t	⊢ ⊢ t		⊢ ⊢ t ⊣	⊢ t

#### **Dimensions**



## **Accessories**

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

For further information refer to "Accessories".

# **Delivery Contents**

- Photoelectric switch: PMP
- Cable gland
- Installation instruction
- Mounting bracket
- Packaging: Corrugated cardboard (environmentally friendly recycling material)