

- 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, $50 / 60 \mathrm{~Hz}$

- $25 \times 65 \times 81 \mathrm{~mm}$ 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.
$25 \times 65 \times 81 \mathrm{~mm}$ plastic housing. PG 13.5 or $1 / 2^{\prime \prime}$ NPT cable gland. Timer options: Delay on operate, delay on release, one shot (triggered on leading or trailing edge).

Ordering Key
PMP 6 R G T
Type
Range
Output
Cable gland type
Timer function

## Type Selection

| Housing <br> W $\mathbf{~ H ~ x ~ D ~}$ |
| :--- |
| $25 \times 65 \times 81$ |
| PG 13.5 cable gland |
| 1/2" NPT cable gland |
| Specifications |


| Rated operating dist. $\left(\mathrm{S}_{\mathrm{n}}\right)$ (0 to 5,000 lux) | PMP6.. 6 m with reflector type ER 4, ref. target |
| :---: | :---: |
| Blind zone | $\leq 0.15 \mathrm{~m}$ |
| Rated operational volt. ( $\mathrm{U}_{\mathrm{B}}$ ) AC: 45 to 65 Hz | $\begin{aligned} & 10.8 \text { to } 264 \text { VDC } \\ & 21.6 \text { to } 264 \text { VAC } \end{aligned}$ |
| Rated operational power (relay ON) | $\leq 2 \mathrm{~W}$ (2.5 VA) |
| Output |  |
| Contact ratings (AgCdO) | $\mu$ (micro gap) |
| Resistive loads AC 1 | 3 A/250 VAC |
| DC 1 | 3 A/30 VDC |
| Small inductive loads AC 15 | 2 A/250 VAC |
| DC 13 | 3 A/30 VDC |
| Mechanical life (typical) | $\geq 40 \times 10^{6}$ operations |
| Electrical life (typical) | $\geq 5 \times 10^{5}$ operations at 220 VAC - 3 A resistive load: 360 impulses/h |
| Dielectric voltage | 2,000 VAC (rms) (cont./supply) |
| Sensitivity | Fixed |
| Light source | GaAIAs, LED, 660 nm |
| Light type | Visible, modulated |
| Optical angle | $\pm 2^{\circ}$ |
| Light spot size | 280 mm at 4 m |

Ordering no.
with timer

PMP 6R GT
PMP 6R IT

## Specifications (cont.)

| Vibration | 10 to $150 \mathrm{~Hz}, 0.5 \mathrm{~mm} / 7.5 \mathrm{~g}$ <br> $($ IEC $60068-2-6)$ <br> $2 \times 1 \mathrm{~m} \& 100 \times 0.5 \mathrm{~m}$ <br> (IEC $60068-2-32)$ |
| :--- | :--- |
| Shock | $250 \mathrm{VAC}(\mathrm{rms})$ |, | Rated insulation voltage |
| :--- |

## Connection Diagram



## Truth Table

|  | Make switching |  | Break switching |  |
| :--- | :---: | :---: | :---: | :---: |
| Object present | Yes | No | Yes | No |
| LED | OFF | ON | OFF | ON |
| Load | Non- <br> active | Active | Active | Non- <br> active |

## Selection of Function

| Switch |  |
| :---: | :---: |
| PMP 6R . | 1 Delay on operate Break switching |
|  | 2 Delay on operate Make switching |
|  | 3 Delay on release Break switching |
| $\square$ | 4 Delay on release Make switching |
|  | 5 One shot, trailing edge Break switching |
| $\square$ | 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

$\mathrm{t}=$ Time delay
tv = Power ON delay
Power supply


## 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)

