

## Product Description

Retro-reflective photoelectric switch. Range up to 10 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" NPT cable gland. Timer options: Delay on operate, delay on release, one shot (triggered on leading or trailing edge).

- Range: 10 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, $50 / 60 \mathrm{~Hz}$

- $25 \times 65 \times 81 \mathrm{~mm}$ reinforced PC housing, IP 67
- Timer options (adjustable)
- NO and NC output



## Ordering Key

## PRIOR GT

Type
PG 13.5 cable gland
Option: Timer function

## Type Selection

$\left.\begin{array}{llll}\hline \begin{array}{l}\text { Housing } \\ \text { W x H x D }\end{array} & \begin{array}{l}\text { Range } \\ \mathbf{S}_{\mathrm{n}}\end{array} & \begin{array}{l}\text { Ordering no. } \\ \text { without timer }\end{array} & \end{array} \begin{array}{l}\text { Ordering no. } \\ \text { with timer }\end{array}\right]$

## Specifications



## Specifications (cont.)

| Vibration | 10 to $150 \mathrm{~Hz}, 0.5 \mathrm{~mm} / 7.5 \mathrm{~g}$ <br> $($ IEC $60068-2-6)$ |
| :--- | :--- |
| Shock | $2 \times 1 \mathrm{~m} \mathrm{\&} \mathrm{100} \mathrm{\times 0.5m}$ <br> $($ IEC $60068-2-32)$ |
| Rated insulation voltage | $250 \mathrm{VAC}(\mathrm{rms})$ |
| Housing material | PC, grey |
| Body |  |
| Front |  |
| Cover |  |
| Cable gland |  |
| Mounting bracket | PC, black |
| PC, black |  |
| Screw terminal <br> Cable gland | PA, black, reinforced <br> Steel, black |
| Weight | $5 \times 2 \times 1 \mathrm{~mm}^{2}$ <br> PG 13.5 or 1/2" NPT <br> for cable 6 to 10 mm |
| Approvals | 110 g |
| CE-marking | UL, CSA |
|  | Yes |

## Connection Diagram



## Selection of Function



1 Break switching

2 Make switching

3 Delay on operate Break switching

4 Delay on operate Make switching
5 Delay on release Break switching
6 Delay on release Make switching
7 One shot, trailing edge Break switching
8 One shot, trailing edge Make switching

9 One shot, leading edge Break switching

10 One shot, leading edge Make switching
$\boxtimes$ Don't care
Upper postion ON (Mode 1) Lower position OFF (Mode 0)

## 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 |

## Installation Hints



## Operation Diagram

t = Time delay
tv = Power ON delay

| Power supply |  |  |
| :---: | :---: | :---: |
| Target present |  |  |
| Object present |  |  |
| Func 1. Output ON |  | ■ - - - |
| Func 2. Output ON | $\square \square \square$ | rtv- |
| Func 3. Output ON | $-t v-1$. | $\vdash \mathrm{t} \rightarrow$ |
| Func 4. Output ON | $\vdash \mathrm{t} \rightarrow \square \quad \mathrm{Ht}-\mathrm{rt}$ |  |
| Func 5. Output ON | $\text { -tv-1 } \quad \vdash-\rightarrow \square_{\square}^{-1} \stackrel{-1}{\square}$ | $\vdash^{\mathrm{t}-1} \square^{\mathrm{t}-} \vdash^{\mathrm{t}} \square$ |
| Func 6. Output ON |  |  |
| Func 7. Output ON | $\cdot \text { tv: } \quad \vdash \quad-1 \quad \vdash \vdash-7$ | $1 \mathrm{tv}: \vdash{ }^{\mathrm{t}}-1 \quad \vdash \vdash \mathrm{t}$ |
| Func 8. Output ON | $\vdash \mathrm{t}-\quad \stackrel{\mathrm{t}}{ }$ | $\vdash \mathrm{t}$ - $\stackrel{\vdash}{\square}$ |
| Func 9. Output ON | $\cdot \mathrm{tv}^{-t-1} \quad \vdash+{ }^{\mathrm{t}-1}$ |  |
| Func 10. Output ON | $\stackrel{\mathrm{t}}{\square}$ | $\vdash \vdash \mathrm{t}-1 \times \mathrm{t}$ |

## Dimensions

PMR


PMR with angle bracket


## Accessories

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

For further information refer to "Accessories"

## Delivery Contents

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

