

## Product Description

The PD70 sensor family of Photoelectric sensors is specially designed for Doors and Entrance control to meet the requirements in the door market. The slim housing design fits inside the alu-
minium frame of e.g. sliding doors.
The emitter has a test input to turn it off for evaluation of the sensor function.
Available in 10-30 VDC version.

- Doors and Entrance control
- Range 12 m
- Modulated, infrared light
- Supply voltage: 10 to 30 VDC
- Output: 100 mA , NPN or PNP type
- Make or break switching
- LED for output indication or power supply
- Protection: reverse polarity, short circuit, transients
- Cable versions or M8 connector
- Emitter mute
- CE and UL325 approved


## C 6 © ${ }^{\circ} \mathrm{N}_{\mathrm{is}}$

## Ordering Key

## Type

Housing style
Housing size
Housing material
Sensor code
Detection principle
Sensing distance
Output type
Output configuration
Connection type
Mute input


## Specifications Receiver

| Rated operating dist. ( $\mathrm{S}_{\mathrm{n}}$ ) | 12 m |
| :---: | :---: |
| Blind zone | None |
| Temperature drift | $\leq 0.2 \% /{ }^{\circ} \mathrm{C}$ |
| Hysteresis (H) | 10-15\% |
| Rated operational volt. ( $\mathrm{U}_{\mathrm{B}}$ ) | 10 to 30 VDC (ripple included) |
| Ripple ( $\mathrm{U}_{\text {rpp }}$ ) | < 10\% |
| Output current |  |
| Continuous ( $\mathrm{l}_{\mathrm{e}}$ ) | $\leq 100 \mathrm{~mA}$ |
| Short-time (I) | $\leq 100 \mathrm{~mA},$ <br> (max. load capacity 100 nF ) |
| No load supply current ( $\mathrm{I}_{0}$ ) | $\leq 16 \mathrm{~mA}$ |
| Minimum operational current ( $I_{m}$ ) | 0.5 mA |
| Ambient light | 100.000 LUX |


| Optical angle | $\pm 5^{\circ}$ |
| :--- | :--- |
| OFF-state current $\left(\mathrm{l}_{\mathrm{r}}\right)$ | $\leq 100 \mu \mathrm{~A}$ |
| Voltage drop $\left(\mathrm{U}_{\mathrm{d}}\right)$ | $\leq 1.8 \mathrm{VDC}$ @ 100 mA |
| Protection | Short-circuit, reverse pola- <br> rity, transients |
| Operating frequency (f) | 100 Hz |
| Response time OFF-ON (tos) | $<5 \mathrm{~ms}$ |
| ON-OFF (torf) | $<5 \mathrm{~ms}$ |

## General Specifications

| Environment |  |
| :---: | :---: |
| Overvoltage category | II (IEC 60664/60664A, 60947-1) |
| Pollution degree | 3 (IEC 60664/60664A, 60947-1) |
| Degree of protection | IP 67 (IEC 60529, 60947-1) |
| Temperature |  |
| Operating | $-25^{\circ}$ to $+55^{\circ} \mathrm{C}\left(-13^{\circ}\right.$ to $\left.+131^{\circ} \mathrm{F}\right)$ |
| Storage | $-40^{\circ}$ to $+70^{\circ} \mathrm{C}\left(-40^{\circ}\right.$ to $\left.+158^{\circ} \mathrm{F}\right)$ |
| Vibration | $\begin{aligned} & 10 \text { to } 150 \mathrm{~Hz}, 0.5 \mathrm{~mm} / 7.5 \mathrm{~g} \\ & \text { (IEC } 60068-2-6 \text { ) } \end{aligned}$ |
| Shock | $\begin{aligned} & 2 \times 1 \mathrm{~m} \& 100 \times 0.5 \mathrm{~m} \\ & \text { (IEC 60068-2-32) } \end{aligned}$ |
| Rated insulation voltage | 50 VDC |



## Operation Diagram

tv = Power ON delay
Power supply
Target emitter present
Object present
Mreak (NC) Output ON
Test active High (MH)

## Installation Hints

To avoid interference from inductive voltage/
current peaks, separate the prox. switch pow-
er cables from any other power cables, e.g.
motor, contactor or solenoid cables

## Dimensions



## Wiring Diagram

| Emitter, mute, Low | Receiver |  |
| :---: | :---: | :---: |
|  |  |  |
| PD 70 CNT 12 ML | PD 70 CNT 12 NO | PD 70 CNT 12 NC |
| Emitter, mute, High |  |  |
|  |  |  |
| PD 70 CNT 12 MH | PD 70 CNT 12 PO | PD 70 CNT 12 PC |

## Detection Diagram



## Excess Gain



## Delivery Contents

- PD70
- Packaging: plastic bag


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