

1) Power, 2) Output function, 3) Delay time, 4) Sensitivity



Basic features

| | |
|------------------------|-----------------------|
| Approval/Conformity | CE WEEE |
| Basic standard | IEC 60947-5-2 |
| Principle of operation | Optical window sensor |
| Series | A |
| Style | Frame |

Display/Operation

| | |
|----------|--|
| Adjuster | Potentiometer 270° (2x) |
| Display | Output function dynamic - LED red LED green: Power |
| Setting | Delay time Sensitivity dynamic |

Electrical connection

| | |
|-----------------------------------|-----------------------------|
| Connection | Connector, M8x1-Male, 3-pin |
| Polarity reversal protected | yes |
| Protection against device mix-ups | yes |
| Short-circuit protection | yes |

Electrical data

| | |
|--|----------------|
| Load capacitance max. at Ue | 0.1 µF |
| No-load current I _o max. at Ue | 75 mA |
| Operating voltage U _b | 10...30 VDC |
| Rated insulation voltage U _i | 75 V DC |
| Rated operating current I _e | 200 mA |
| Rated operating voltage U _e DC | 24 V |
| Ready delay t _v max. | 100 ms |
| Residual current I _r max. | 50 µA |
| Ripple max. (% of U _e) | 15 % |
| Switching frequency | 100 Hz Dynamic |
| Turn-off delay t _{off} max. | 0.4 ms dyn. |
| Turn-on delay t _{on} max. | 0.4 ms dyn. |
| Utilization category | DC -13 |
| Voltage drop U _d max. at I _e | 2.5 V |

Environmental conditions

| | |
|-------------------------|--|
| Ambient temperature | -10...55 °C |
| Contamination scale | 3 |
| EN 60068-2-27, Shock | Half-sinus, 30 gn, 11 ms, 3x6 |
| EN 60068-2-6, Vibration | 10...55 Hz, 0.5 mm, 3x5 min 55 Hz, 0.5 mm, 3x30 min |
| Protection degree | IP67 |

Material

| | |
|--------------------------|---------------------------|
| Housing material | Aluminum, anodized, black |
| Material sensing surface | PMMA |
| Surface protection | anodized, black |

Mechanical data

| | |
|-------------------------|-------------------|
| Active window (PL x AL) | 80 x 160 mm |
| Dimension | 18 x 130 x 220 mm |
| Mounting | Screw M6 |
| | Screw M4 |

Optical features

| | |
|--------------------------------|---------------------|
| Ambient light max. | 5000 Lux |
| Beam characteristic | Divergent |
| Light type | Infrared |
| Principle of optical operation | Through-beam sensor |
| Smallest part typ. | 1.0 mm dynamic |
| Switching function, optical | dark-on |
| Wave length | 880 nm |

Output/Interface

| | |
|---------------------------|--------------------------------|
| Duration of time function | T = 5...300 ms |
| Switching output | PNP dynamic normally open (NO) |
| Time function | Turn-off delay dynamic |

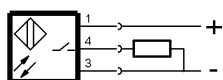
Remarks

Order accessories separately.
 For additional information, refer to user's guide.
 Reference object (target): Steel ball, diameter 2.0 mm, lateral approach.
 The sensor is functional again after the overload has been eliminated.

Connector Drawings



Wiring Diagrams



Opto Symbols

