

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



Basic features

| | |
|-------------------------------|---|
| Additional features | Dynamic function principle, ideal as eject monitoring under harsh operating conditions, particularly rugged design, protected optics, adjustable object resolution. |
| Approval/Conformity | CE UKCA 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 - LED red LED green: Power |
| Setting | Sensitivity Delay time |

Electrical connection

| | |
|------------------------------------|-----------------------------|
| Connection | Connector, M8x1-Male, 4-pin |
| Contact, surface protection | Gold plated |
| Polarity reversal protected | yes |
| Short-circuit protection | yes |

Electrical data

| | |
|---|-------------|
| Load capacitance max. at Ue | 0.1 µF |
| No-load current I_o max. at Ue | 100 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 |
| Turn-off delay t_{off} max. | 0.4 ms dyn. |
| Turn-on delay t_{on} max. | 0.4 ms |
| Voltage drop U_d max. at I_e | 2.5 V |

Environmental conditions

| | |
|----------------------------|-------------|
| Ambient temperature | -10...55 °C |
| IP rating | IP67 |

Interface

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

Material

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

Mechanical data

| | |
|-------------------------|-------------------|
| Active window (PL x AL) | 160 x 160 mm |
| Dimension | 18 x 210 x 220 mm |
| Mounting part | Screw M6 |
| | Screw M4 |
| | Screw M5 |

Optical features

| | |
|--------------------------------|---------------------|
| Ambient light max. | 2000 Lux |
| Beam characteristic | Divergent |
| Light type | Infrared |
| Principle of optical operation | Through-beam sensor |
| Smallest part typ. | 1.50 mm |
| Switching function, optical | dark-on |

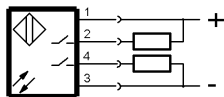
Remarks

Order accessories separately.
 For additional information, refer to user's guide.
 Do not route connection cable parallel to high voltage lines.
 The sensor is functional again after the overload has been eliminated.
 Reference object (target): Steel ball, diameter 2.0 mm, lateral approach.

Connector Drawings



Wiring Diagrams (Schematic)



Opto Symbols

