

1) Pulse extender, 2) LED Power indicator, 3) Switching function, 4) Object resolution, 5) LED warning indicator, 6) LED function indicator, 7) Optical axis



Basic features

| | |
|------------------------|---|
| Additional features | Static switching output with automatic readjustment of the switching threshold Contamination compensation up to 60% intensity loss and reduced object resolution depending on degree of contamination. |
| Approval/Conformity | CE UKCA WEEE |
| Basic standard | IEC 60947-5-2 |
| Principle of operation | Optical window sensor |
| Series | B |
| Style | Frame |

Display/Operation

| | |
|----------|--|
| Adjuster | Potentiometer 270° (3x) |
| Display | Output function- LED yellow LED green: Power Error - LED red |
| Setting | Pulse extension (On/Off) Object resolution (3 levels) Light-on/dark-on |

Electrical connection

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

Electrical data

| | |
|-------------------------------------|-------------|
| No-load current I_o max. at U_e | 400 mA |
| Operating voltage U_b | 15...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. | 300 ms |
| Residual current I_r max. | 50 μ A |
| Ripple max. (% of U_e) | 15 % |
| Switching frequency | 400 Hz |
| Turn-off delay t_{off} max. | 1.25 ms |
| Turn-on delay t_{on} max. | 1.25 ms |
| Voltage drop U_d max. at I_e | 3.5 V |

Environmental conditions

| | |
|---------------------|-------------|
| Ambient temperature | -10...55 °C |
| IP rating | IP65 |

Interface

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|---------------------------|--|
| Duration of time function | T = 50 ms |
| Switching output | NPN static normally open/ normally closed (NO/NC) PNP static normally open/ normally closed (NO/NC) |
| Time function | switch-off delay |

Material

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

Mechanical data

| | |
|-------------------------|-------------------|
| Active window (PL x AL) | 400 x 400 mm |
| Dimension | 15 x 450 x 454 mm |
| Mounting part | Screw M6 |

Optical features

| | |
|--------------------------------|----------------------------|
| Ambient light max. | 2000 Lux |
| Beam characteristic | Divergent |
| Light type | infrared pulsed |
| Principle of optical operation | Through-beam sensor |
| Smallest part typ. | 4.0 mm (resolution "High") |
| Switching function, optical | dark-on/light-on |

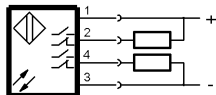
Remarks

Order accessories separately.
For additional information, refer to user's guide.
Do not route connection cable parallel to high voltage lines.
Reference object (target): Steel ball, diameter 4.0 mm, lateral approach.
The sensor is functional again after the overload has been eliminated.

Connector Drawings



Wiring Diagrams



Opto Symbols

