

1) Optical axis receiver, 2) Output function



Basic features

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|------------------------|-----------------------------|
| Approval/Conformity | CE UKCA cULus WEEE |
| Basic standard | IEC 60947-5-2 |
| Principle of operation | Photoelectric sensor |
| Series | Q08M |
| Style | Square Connection 90° |

Display/Operation

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| Display | Limit range - LED yellow, flashing LED yellow: Light received |
|---------|--|

Electrical connection

| | |
|-----------------------------------|--|
| Cable diameter D | 3.00 mm |
| Cable length L | 0.2 m |
| Connection | Cable with connector, M8x1-Male, 3-pin, 0.20 m, PUR |
| Contact, surface protection | Gold plated |
| Polarity reversal protected | yes |
| Protection against device mix-ups | yes |
| Short-circuit protection | yes |

Electrical data

| | |
|--|-------------|
| Load capacitance max. at Ue | 0.05 µF |
| No-load current I _o max. at Ue | 10 mA |
| Operating voltage U _b | 10...30 VDC |
| Rated insulation voltage U _i | 75 V DC |
| Rated operating current I _e | 100 mA |
| Rated operating voltage U _e DC | 24 V |
| Ready delay t _v max. | 20 ms |
| Ripple max. (% of U _e) | 10 % |
| Switching frequency | 500 Hz |
| Turn-off delay t _{off} max. | 1 ms |
| Turn-on delay t _{on} max. | 1 ms |
| Utilization category | DC -13 |
| Voltage drop U _d max. at I _e | 0.7 V |

Environmental conditions

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|-------------------------|--|
| Ambient temperature | -5...55 °C |
| EN 60068-2-27, Shock | Half-sinus, 100 gn, 2 ms, 3x8000 Half-sinus, 30 g _n , 11 ms, 3x6 |
| EN 60068-2-6, Vibration | 10...55 Hz, amplitude 1 mm, 3x30 min 10...2000 Hz, amplitude 1 mm, 30 gn, 3x5 h |
| IP rating | IP67 |

Functional safety

| | |
|--------------|---------|
| MTTF (40 °C) | 972.7 a |
|--------------|---------|

Photoelectric Sensors
BOS Q08M-PS-KE21-00,2-S49
Order Code: BOS01Y6



Interface

Switching output PNP normally open (NO)

Material

Housing material Zinc, Die casting, nickel-plated
Material jacket PUR
Material sensing surface PMMA
Surface protection nickel-plated

Mechanical data

Dimension 8 x 44 x 8 mm
Mounting part Screw M3

Remarks

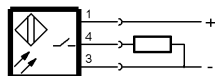
Order accessories separately.
For additional information, refer to user's guide.
Only for applications per NFPA 79 (machines with a supply voltage of maximum 600 V). Use an R/C (CYJV2) cable with suitable properties for attaching the device.
The sensor is functional again after the overload has been eliminated.
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings



Wiring Diagrams



Opto Symbols

