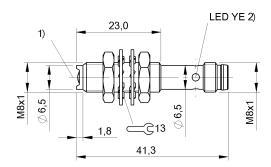
BOS 08E-PS-KE20-S49 **Order Code: BOS020F**

BALLUFF



1) Optical axis, 2) Output function



Approval/Conformity CE cULus EAC WEEE Basic standard IEC 60947-5-2 Principle of operation Photoelectric sensor Series 08E Style Cylinder Straight optics

Display/Operation

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

Electrical connection

Connection Connector, M8x1-Male, 3-pin Contact, surface protection Gold plated Polarity reversal protected yes Protection against device mix-ups yes Short-circuit protection ves

Electrical data

Load capacitance max. at Ue $0.05\,\mu\text{F}$ No-load current lo max. at Ue 10 mA Operating voltage Ub 10...30 VDC 75 V DC Rated insulation voltage Ui Rated operating current le 100 mA Rated operating voltage Ue DC 24 V Ready delay tv max. 20 ms Ripple max. (% of Ue) 10 % Switching frequency 500 Hz Turn-off delay toff max. 1 ms Turn-on delay ton max. 1 ms **Utilization category** DC -13 0.7 V Voltage drop Ud max. at le

Environmental conditions

| Ambient temperature | -555 °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 | 1055 Hz, amplitude 1 mm, 3x30 min ₁₀ 2000 Hz, amplitude 1 mm, 30 gn, 3x5 h | | | |
| IP rating | IP67 | | | |
| Functional safety | | | | |

1989 a

MTTF (40 °C)

Photoelectric Sensors

BOS 08E-PS-KE20-S49 Order Code: BOS020F



Interface Optical features Switching output PNP normally open (NO) Light type LED, red light Principle of optical operation Through-beam sensor (receiver) Material Switching function, optical dark-on Housing material Stainless steel Range/Distance Material sensing surface PMMA Range 0...2.2 m Rated operating distance Sn 2.2 m Mechanical data Dimension Ø 8 x 40 mm

Remarks

Mounting part

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

Nut M8x1

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 1 4 3



| Opto Symbols | | |
|--------------|--|--|
| - | | |