

1) Optical axis emitter



IND. CONT. EQ.
81U2
Class 2 Type 1



Display/Operation

Adjuster no

Functional safety

MTTF (40 °C) 950 a

Electrical connection

Connection Connector, M12x1-Male, 4-pin
Contact, surface protection Gold plated
Polarity reversal protected yes

General data

Approval/Conformity CE
cULus
Ecolab
FDA compliant
EAC
WEEE
Basic standard IEC 60947-5-2
Principle of operation Photoelectric sensor
Reference receiver BOS 18E-PA-RE20-S4
Series 18E
Style Cylinder
Straight optics

Electrical data

Input function Test (Emitter off)
No-load current I_0 max. at U_e 25 mA
Operating voltage U_b 10...30 VDC
Rated insulation voltage U_i 75 V DC
Rated operating voltage U_e DC 24 V

Environmental conditions

Ambient temperature -25...70 °C
Contamination scale 3
EN 60068-2-27, Shock Half-sinus, 100 gn, 2 ms, 3x8000
Half-sinus, 30 gn, 11 ms, 3x6
EN 60068-2-6, Vibration 10...2000 Hz, amplitude 1 mm, 30 gn, 3x5 h
10...55 Hz, amplitude 1 mm, 3x30 min
IP rating IP68/IP67
IP rating per DIN 40050 IPx9K

Material

Housing material Stainless steel (1.4404)
Material sensing surface Glass

Mechanical data

Dimension Ø 18 x 75 mm
Mounting Nut M18x1
Tightening torque max. 40 Nm

Optical data

Beam characteristic	Divergent
LED group per IEC 62471	Exempt Group
Light type	Red light
Principle of optical operation	Through-beam sensor (Emitter)

Wave length 850 nm

Range/Distance

Range	0...50 m
Rated operating distance Sn	50 m

Remarks

For additional information, refer to user's guide.

Order accessories separately.

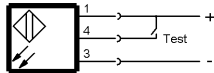
For further information about the MTTF and B10d see MTTF / B10d certificate

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

