

1) Optical axis emitter

CE ECOLAB®



**UK
CA**

Basic features

Approval/Conformity	CE UKCA cULus Ecolab WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Reference receiver	BOS 18E-PA-RE30-S4
Series	18E
Style	Cylinder Straight optics

Display/Operation

Adjuster	no
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Electrical connection

Connection	Connector, M12x1-Male, 4-pin
Contact, surface protection	Gold plated
Polarity reversal protected	yes
Protection against device mix-ups	yes

Electrical data

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
Ripple max. (% of U_e)	15 %

Environmental conditions

Ambient temperature	-25...60 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 100 gn, 2 ms, 3x8000
EN 60068-2-6, Vibration	10...2000 Hz, amplitude 1 mm, 30 gn, 3x5 h
IP rating	IP68/IP67
IP rating per DIN 40050	IPx9K

Functional safety

MTTF (40 °C)	1359 a
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Material

Housing material	1.4404 stainless steel
Material sensing surface	PMMA

Mechanical data

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

Optical features

Beam characteristic	Divergent
LED group per IEC 62471	Exempt Group
Light type	LED, red light
Principle of optical operation	Through-beam sensor (Emitter)
Wave length	640 nm

Photoelectric Sensors
BOS 18E-X-RS30-S4
Order Code: BOS023U

BALLUFF

Range/Distance

Range

0...20 m

Rated operating distance Sn

20 m

Remarks

For additional information, refer to user's guide.

Order accessories separately.

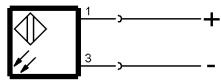
For more information about MTTF and B10d see MTTF / B10d Certificate

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



1) Emitter

Opto Symbols

