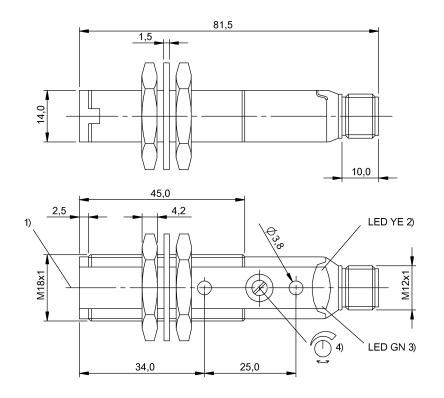
BOS 18KF-PA-1QD-S4-C Order Code: BOS00K3





1) Optical axis, 2) Output function, 3) Stability, 4) Sn







Basic fe	atures
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Approval/Conformity	CE
	cULus
	WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Reference reflector	BOS R-1
Series	18KF
Style	Flat cylinder
	Straight optics
Trademark	Global
Display/Operation	

Display/Operation

Adjuster	Potentiometer 270°
Display	Output function- LED yellow
	Stability - LED green
Setting	Sensitivity (Sn)

Electrical connection

Connection

Polarity reversal protected Short-circuit protection	yes yes
Electrical data	
No-load current lo max. at Ue	35 mA
Operating voltage Ub	1030 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Ripple max. (% of Ue)	8 %
Switching frequency	1000 Hz
Turn-off delay toff max.	0.5 ms
Turn-on delay ton max.	0.5 ms
Voltage drop Ud max. at le	2 V

Connector

Photoelectric Sensors

BOS 18KF-PA-1QD-S4-C Order Code: BOS00K3



Environmental conditions

-25...55 °C Ambient temperature EN 60068-2-27, Shock Half-sinus, 30 g_n , 11 ms, 3x6 EN 60068-2-6, Vibration 10...55 Hz, amplitude 0.5 mm,

3x30 min

IP rating **IP67**

Functional safety

MTTF (40 °C) 774 a

Interface

Switching output PNP normally closed (NC)

PNP normally open (NO) Pins 4-2

Material

PBT Housing material Material sensing surface РММА Mechanical data

Dimension Ø 18 x 81.5 mm Screw M3 Mounting part

Nut M18x1

Tightening torque max. 1.5 Nm

Optical features

Ambient light max. 5000 Lux Blind zone 100 mm Light type LED, red light

Polarizing filter

Principle of optical operation Retroreflective sensor

Switching function, optical Wave length 660 nm

Range/Distance

0...4.5 m Range

Rated operating distance Sn 4.5 m Adjustable

Remarks

The sensor is functional again after the overload has been eliminated.

Polarizing filters prevent spurious switching due to reflecting and shiny parts.

For additional information, refer to user's guide.

Order accessories separately.

Actuation object (target): gray card, 200 x 200, 90 % remission, lateral approach, approach direction vertical to lens axis plane.

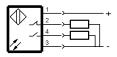
For more information about MTTF and B10d see MTTF / B10d Certificate

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



Subject to change without notice: 269119