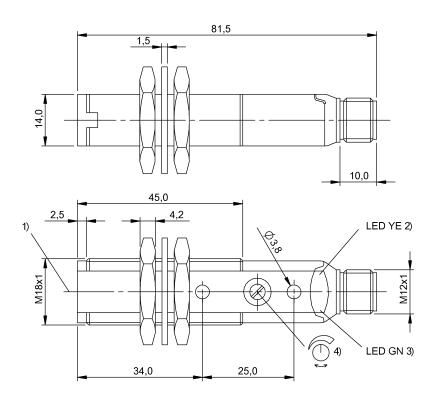
BOS 18KF-NA-1PE-S4-C **Order Code: BOS00J5**





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







Dania	fasting	
Basic	feature	35

Approval/Conformity	CE
	cULus
	WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
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	Rated switching distance (Sn)

Electrical connection

Polarity reversal protected

Connection

Subject to change without notice: 269129

Short-circuit protection	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

yes

Connector, M12x1-Male, 4-pin

Photoelectric Sensors

BOS 18KF-NA-1PE-S4-C Order Code: BOS00J5



Environmental conditions

 $\begin{array}{lll} \mbox{Ambient temperature} & -25...55 \ ^{\circ}\mbox{C} \\ \mbox{EN 60068-2-27, Shock} & \mbox{Half-sinus, 30 g}_{\mbox{\scriptsize n}}, \mbox{11 ms, 3x6} \\ \end{array}$

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 NPN normally closed (NC)

NPN normally open (NO) Pins 4-2

Material

Housing material PBT

Material sensing surface PMMA

Mechanical data

Dimension Ø 18 x 81.5 mm **Mounting part** Screw M3

Nut M18x1

Tightening torque max. 1.5 Nm

Optical features

Ambient light max. 5000 Lux

Beam characteristic Divergent

Light type LED infrared

Principle of optical operation Diffuse sensor, energetic

Switching function, optical Light-on

Wave length 880 nm

Range/Distance

Range 0...700 mm

Rated operating distance Sn 700 mm Adjustable

Remarks

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

Reference object (target): gray card, 200 x 200, 90 % remission, axial approach.

For additional information, refer to user's guide.

Order accessories separately.

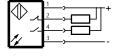
For more information about MTTF and B10d see MTTF / B10d Certificate

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



Opto Symbols

