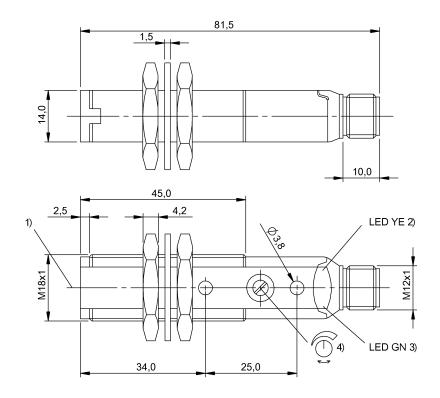
BOS 18KF-PA-1QD-S4-C Order Code: BOS00K3





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







Dania	fasting	
Basic	feature	35

947-5-2
electric sensor
-1
linder
t optics

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

Electrical connection

Connection

Subject to change without notice: 269119

yes
yes
35 mA
1030 VDC
75 V DC
100 mA
24 V
8 %
1000 Hz
0.5 ms
0.5 ms
2 V

Connector

Photoelectric Sensors

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



Environmental conditions

 $\begin{array}{lll} \textbf{Ambient temperature} & -25...55 \, ^{\circ}\text{C} \\ \textbf{EN 60068-2-27, Shock} & \text{Half-sinus, 30 g}_{\text{n}}, \, 11 \, \text{ms, 3x6} \\ \textbf{EN 60068-2-6, Vibration} & 10...55 \, \text{Hz, amplitude 0.5 mm,} \\ \end{array}$

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

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
Blind zone 100 mm
Light type LED, red light

Polarizing filter yes

Principle of optical operation Retroreflective sensor

Switching function, optical dark-on Wave length 660 nm

Range/Distance

Range 0...4.5 m
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.

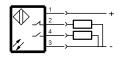
For more information about MTTF and B10d see MTTF / B10d Certificate

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

