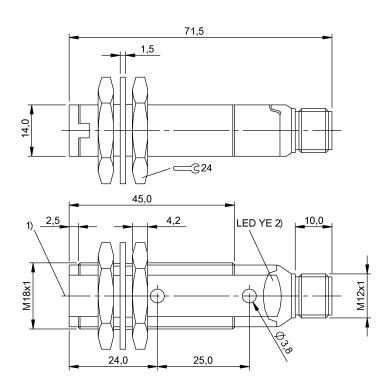


BOS 18KF-PA-1RE-S4-C BOS00K5



1) Optical axis 2) Output function

Reference reflector





|--|

Connection	M12x1-Connector, 4-pole, A-coded
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

MTTF (40 °C)	834 a
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 DC	100 mA
Rated operating voltage Ue DC	24 V
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

Environmental conditions

 $\begin{array}{lll} \mbox{Ambient temperature} & -25...55 \ ^{\circ}\mbox{C} \\ \mbox{Protection type IEC 60529} & \mbox{IP67} \end{array}$

Functional safety	
Diagnostic coverage	0 %
Functional safety	no
Mission Time	10 a
General data	
Approval/Conformity	CE cULus
Basic standard	IEC 60947-5-2
Series	18KF
Style	Flat cylinder Straight optics
Trademark	Global
Material	
Housing material	PBT
Material sensing surface	PMMA

BOS R-1



BOS 18KF-PA-1RE-S4-C BOS00K5

Mechanical data

Blind zone 100 mm Dimension Ø 18 x 14 mm Fastening detail Nut M18x1 Screw M3

Tightening torque max. 1.5 Nm

Optical data

Ambient light max. 5000 Lux Light type Infrared Polarizing filter

Principle of optical operation Retroreflective sensor

Wave length 880 nm

Output/Interface

Switching output PNP Normally closed (NC)

PNP Normally open (NO)

Range/Distance

Measuring range 0...5 m Range 0...5 m Rated operating distance Sn 5 m, Adjustable

Ripple max. (% of Ue) 8 %

Remarks

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

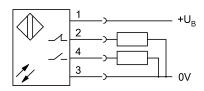
For further information on MTTF/B10d, please refer to the MTTF / B10d Certifi-

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

Connector view



Wiring Diagram



Symbols for Optoelectronic Sensors

