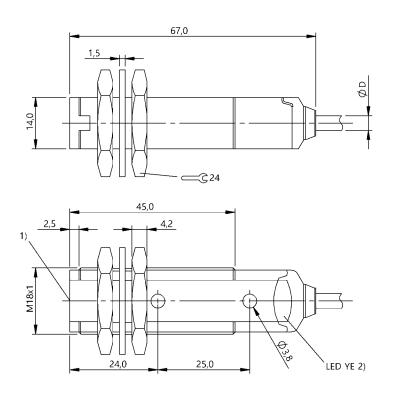
# BYLLUFF



# 1) Optical axis, 2) Output function









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Approval/Conformity	CE UKCA			
	cULus			
	WEEE			
Basic standard	IEC 60947-5-2			
Principle of operation	Photoelectric sensor			
Series	18KF			
Style	Flat cylinder			
	Straight optics			
Trademark	Global			
B. 1. 18				

# Display/Operation

Display Output function- LED yellow

### Electrical connection

Cable diameter D	4.00 mm
Cable length L	2 m
Conductor cross-section	0.14 mm <sup>2</sup>
Connection	Cable, 2.00 m, PVC
Number of conductors	4
Polarity reversal protected	yes
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

### Photoelectric Sensors

# BOS 18KF-PA-1XA-C-02 Order Code: BOS00K8



1.5 Nm

### **Environmental conditions**

Ambient temperature -25...55 °C EN 60068-2-27, Shock Half-sinus,  $30 g_n$ , 11 ms, 3x6EN 60068-2-6, Vibration 10...55 Hz, amplitude 0.5 mm, 3x30 min

IP67

838 a

PNP normally closed (NC)

PNP normally open (NO) Pins 4-2

IP rating

Functional safety

MTTF (40 °C)

Interface

Switching output

Material

Housing material PBT Material jacket PVC Material sensing surface **PMMA**  Mechanical data

Dimension Ø 18 x 67 mm Mounting part Screw M3 Nut M18x1

Tightening torque max.

Optical features

Ambient light max. 5000 Lux Beam characteristic Divergent LED infrared Light type

Principle of optical operation Switching function, optical

Wave length

Range/Distance

Range Rated operating distance Sn

880 nm

Light-on

Diffuse sensor, energetic

0...100 mm 100 mm

### Remarks

Reference object (target): gray card, 100 x 100, 90 % remission, axial approach.

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

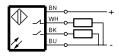
For additional information, refer to user's guide.

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.

# Wiring Diagrams



# Opto Symbols

