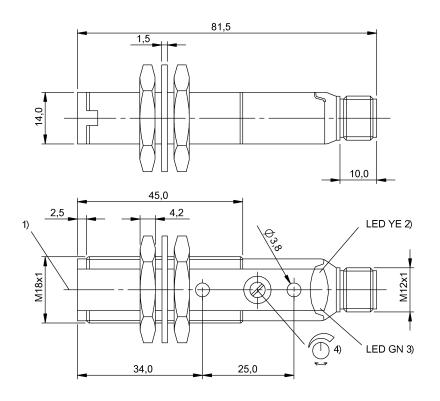
BALLUFF



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









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Approval/Conformity	CE UKCA 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	
Adjuster	Potentiometer 270°
Display	Output function- LED yellow Stability - LED green
Setting	Sensitivity (Sn)

Electrical connection

Connection

Subject to change without notice: 269119

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

BVLLUFF

1.5 Nm

Environmental conditions

Ambient temperature -25...55 °C EN 60068-2-27, Shock Half-sinus, $30 g_n$, 11 ms, 3x610...55 Hz, amplitude 0.5 mm, EN 60068-2-6, Vibration 3x30 min

IP67

IP rating

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.

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 dark-on Wave length 660 nm

Range/Distance

0 45m 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.

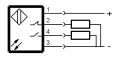
For more information about MTTF and B10d see MTTF / B10d Certificate

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 (Schematic)



Opto Symbols

