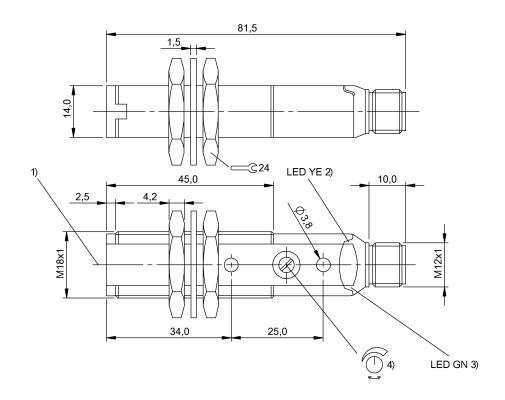
BALLUFF



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









Basic features	
Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Reference emitter	BLS 18KF-XX-1P
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: 269121

Polarity reversal protected Short-circuit protection	yes yes
Flectrical data	•
Liecti icai data	
No-load current lo max. at Ue	30 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	250 Hz
Turn-off delay toff max.	1.67 ms
Turn-on delay ton max.	1.67 ms
Voltage drop Ud max. at le	2 V

Connector, M12x1-Male, 4-pin

Photoelectric Sensors

BLE 18KF-PA-1PP-S4-C Order Code: BOS00CK

BVLLUFF

Environmental conditions

Ambient temperature -25...55 °C EN 60068-2-27, Shock Half-sinus, 30 g_n, 11 ms, 3x6 10...55 Hz, amplitude 0.5 mm, EN 60068-2-6, Vibration

3x30 min

IP rating IP67

Functional safety

MTTF (40 °C) 855 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 Nut M18x1 Screw M3

Tightening torque max.

Optical features

Ambient light max. 5000 Lux Light type Infrared

Principle of optical operation Through-beam sensor (receiver)

Light-on

1.5 Nm

dark-on

Range/Distance

Switching function, optical

0...20 m Range

Rated operating distance Sn 20 m, Adjustable

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, lateral approach.

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

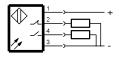
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Subject to change without notice: 269121

Connector Drawings



Wiring Diagrams (Schematic)



Opto Symbols

