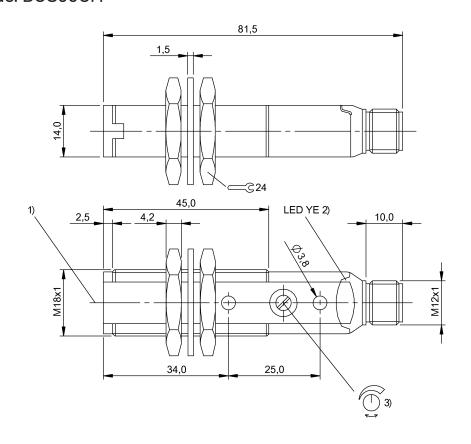
# **BALLUFF**



1) Optical axis, 2) Output function, 3) 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-1LT
Series	18KF
Style	Flat cylinder
	Straight optics
Trademark	Global
Display/Operation	
Adjuster	Potentiometer 270°
Display	Output function- LED yellow
Setting	Sensitivity (Sn)
•	* * *

#### **Electrical connection**

Connection

Polarity reversal protected Short-circuit protection	yes yes
Short-circuit protection	yes
Electrical 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	1500 Hz
Turn-off delay toff max.	0.33 ms
Turn-on delay ton max.	0.33 ms
Utilization category	DC -13
Voltage drop Ud max. at le	2 V

Connector, M12x1-Male, 4-pin

#### Photoelectric Sensors

## BLE 18KF-PA-1LT-S4-C Order Code: BOS00CH

## BVLLUFF

#### Environmental conditions

Ambient temperature EN 60068-2-27, Shock EN 60068-2-6, Vibration

-10...50 °C Half-sinus, 30 g<sub>n</sub>, 11 ms, 3x6 10...55 Hz, amplitude 0.5 mm, 3x30 min

IP67

Functional safety

MTTF (40 °C)

875 a

PBT

PMMA

Interface

IP rating

Switching output

PNP normally closed (NC) PNP normally open (NO) Pins 4-2

Material

Housing material Material sensing surface Mechanical data

Dimension Ø 18 x 81.5 mm Mounting part Nut M18x1 Tightening torque max. 1.5 Nm

Optical features

Ambient light max. 5000 Lux Light type Laser red light

Principle of optical operation Through-beam sensor (receiver)

Switching function, optical dark-on

Range/Distance

Range 0...60 m

Rated operating distance Sn 60 m, Adjustable

## Remarks

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

Actuation object (target): gray card, 200 x 200, lateral approach.

For additional information, refer to user's guide.

Order accessories separately

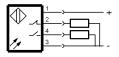
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

### **Connector Drawings**



## Wiring Diagrams (Schematic)



## Opto Symbols

