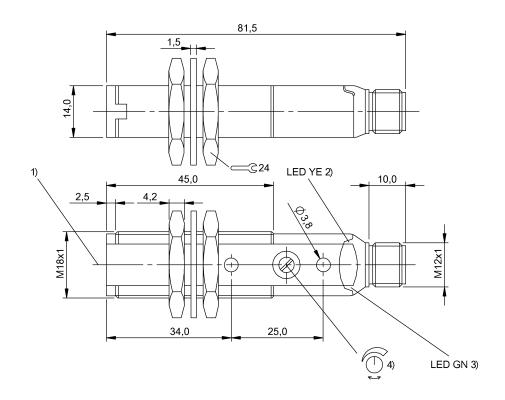
BALLUFF



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



Setting





Dania	6004	
Basic	reat	ures

Approval/Conformity	CE
	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 Sensitivity (Sn)

Electrical connection

Subject to change without notice: 269121

Connection	Connector, M12x1-Male, 4-pin
Polarity reversal protected	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	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

Photoelectric Sensors

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

BALLUFF

Environmental conditions

Ambient temperature -25...55 °C

 $\begin{array}{ll} \textbf{EN 60068-2-27, Shock} & \text{Half-sinus, 30 g}_{\text{n}}, \ 11 \ \text{ms, 3x6} \\ \textbf{EN 60068-2-6, Vibration} & 10...55 \ \text{Hz, amplitude 0.5 mm,} \\ \end{array}$

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. 1.5 Nm

Optical features

Ambient light max. 5000 Lux
Light type Infrared

Principle of optical operation Through-beam sensor (receiver)

Switching function, optical Light-on dark-on

Range/Distance

Range 0...20 m

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.

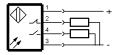
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

Connector Drawings



Wiring Diagrams



Opto Symbols

