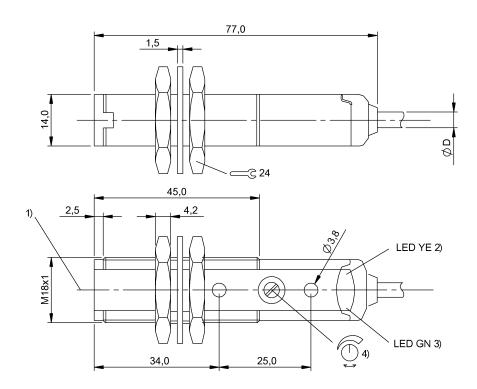
BALLUFF



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

Cable diameter D	4.00 mm
Cable length L	2 m
Conductor cross-section	0.14 mm ²
Connection	Cable, 2.00 m, PVC
Number of conductors	4
Polarity reversal protected	yes
Short-circuit protection	yes
Electrical data	

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-1QD-C-02 Order Code: BOS00K2



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 jacket PVC Material sensing surface **PMMA** Mechanical data

Dimension Ø 18 x 77 mm Mounting part Nut M18x1 Screw M3

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

Polarizing filters prevent spurious switching due to reflecting and shiny parts.

For additional information, refer to user's guide.

Order accessories separately.

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

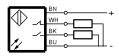
Actuation object (target): gray card, 200 x 200, 90 % remission, lateral approach, approach direction vertical to lens axis plane.

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.

Subject to change without notice: 269120

Wiring Diagrams (Schematic)



Opto Symbols

