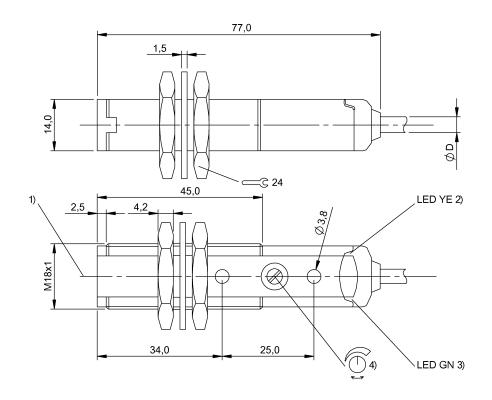
BALLUFF



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









_		-		
ヒコ	CIC	10	211	ıres
Dа	SIL	, 10	au	11 CO

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

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	ves

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-C-02 Order Code: BOS00CJ



Environmental conditions

 Ambient temperature
 -25...55 °C

 EN 60068-2-27, Shock
 Half-sinus, 30 g_n, 11 ms, 3x6

 EN 60068-2-6, Vibration
 10...55 Hz, amplitude 0.5 mm, 3x30 min

1P67

Functional safety

MTTF (40 °C) 855 a

Interface

IP rating

Switching output PNP normally closed (NC)

PNP normally open (NO) Pins 4-2

Material

Housing materialPBTMaterial jacketPVCMaterial sensing surfacePMMA

Mechanical data

 Dimension
 Ø 18 x 77 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)

Light-on

dark-on

Range/Distance

Switching function, optical

Range0...20 mRated operating distance Sn20 m, Adjustable

Remarks

For additional information, refer to user's guide.

Order accessories separately.

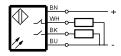
The sensor is functional again after the overload has been eliminated.

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

Wiring Diagrams (Schematic)



Opto Symbols

