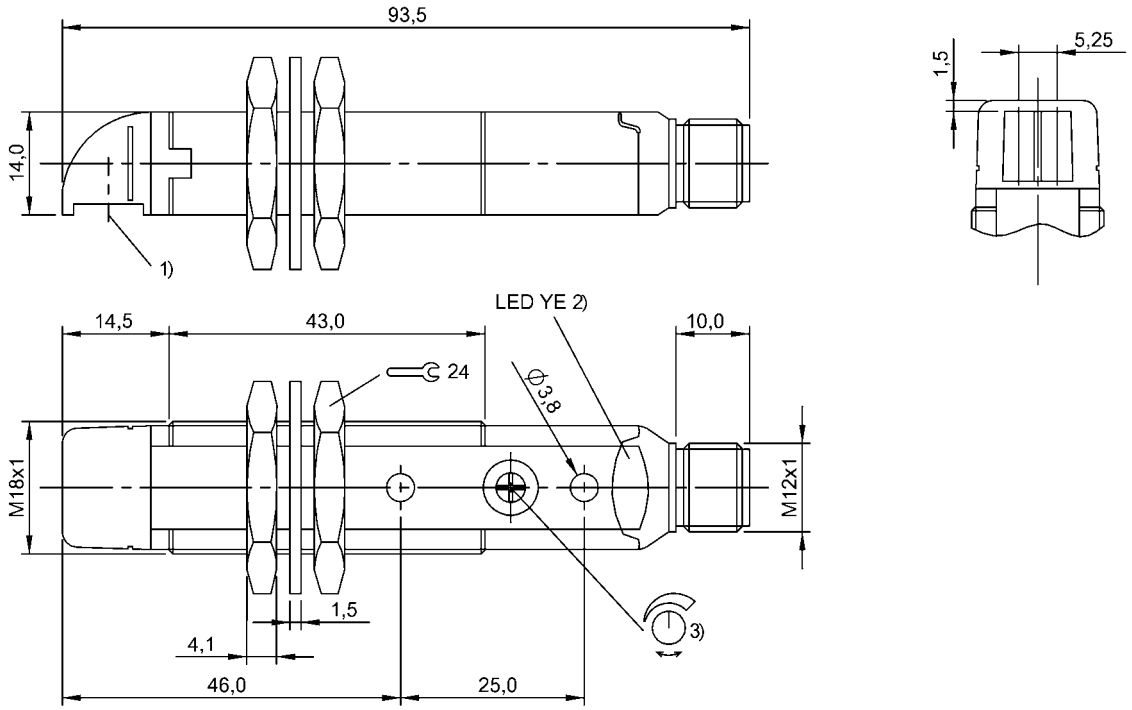
Photoelectric Sensors

BLE 18KW-PA-1LT-S4-C
Order Code: BOS00CT



1) Output function, 1) Optical axis, 3) Sn

Basic features

Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Reference emitter	BLS 18KW-XX-1LT-..
Series	18KW
Style	Flat cylinder Optics 90°
Trademark	Global

Display/Operation

Adjuster	Potentiometer 270°
Display	Output function- LED yellow
Setting	Sensitivity (Sn)

Electrical connection

Connection	Connector, M12x1-Male, 4-pin
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

No-load current Io max. at Ue	30 mA
Operating voltage Ub	10...30 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	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 Ie	2 V

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Environmental conditions

Ambient temperature	-10...50 °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
IP rating	IP67

Functional safety

MTTF (40 °C)	875 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 93.5 mm
Mounting part	Nut M18x1
Tightening torque max.	1.5 Nm

Optical features

Ambient light max.	5000 Lux
Light type	Red light
Principle of optical operation	Through-beam sensor (receiver)
Switching function, optical	dark-on

Range/Distance

Range	0...50 m
Rated operating distance Sn	50 m, Adjustable

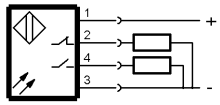
Remarks

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



Opto Symbols