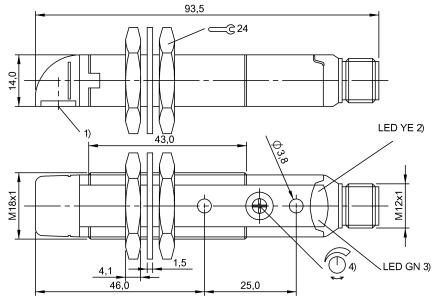
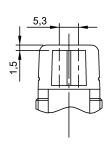
BOS 18KW-PA-1QC-S4-C Order Code: BOS00LW

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









	_	
Basic	fact	1000
Basic	16211	11/25

Basic reatures	
Approval/Conformity	CE
	UKCA
	cULus
	WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Reference reflector	BOS R-1
Series	18KW
Style	Flat cylinder
	Optics 90°
Trademark	Global

Display/Operation

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

Electrical connection

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

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

Environmental conditions

Interface	
MTTF (40 °C)	774 a
Functional safety	
IP rating	IP67
	3x30 min
EN 60068-2-6, Vibration	1055 Hz, amplitude 0.5 mm,
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms, 3x6
Ambient temperature	-2555 °C
Environmental conditions	

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

Switching output

Photoelectric Sensors

BOS 18KW-PA-1QC-S4-C Order Code: BOS00LW

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Material

Housing materialPBTMaterial sensing surfacePMMA

Mechanical data

Dimension Ø 18 x 93.5 mm

Mounting part Nut M18x1
Screw M3

Tightening torque max. 1.5 Nm

Optical features

Ambient light max.5000 LuxBlind zone100 mmLight typeLED, red lightPolarizing filteryes

Principle of optical operation Retroreflective sensor

Switching function, optical dark-on Wave length 660 nm

Range/Distance

Range 0...3 m
Rated operating distance Sn 3 m, Adjustable

Remarks

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

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

For additional information, refer to user's guide.

Order accessories separately.

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

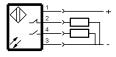
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

Connector Drawings



Wiring Diagrams (Schematic)



Opto Symbols

