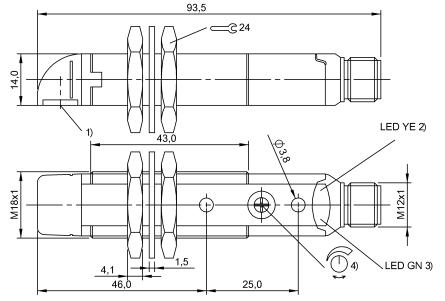
# Photoelectric Sensors BOS 18KW-PA-1PD-S4-C Order Code: BOS00LT



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



**Basic features** 

Approval/Conformity	CE	
	cULus	
	EAC	
	WEEE	
Basic standard	IEC 60947-5-2	
Principle of operation	Photoelectric sensor	
Series	18KW	
Style	Flat cylinder	
	Optics 90°	
Trademark	Global	

## **Display/Operation**

 Adjuster
 Potentiometer 270°

 Display
 Output function- LED yellow

 Stability - LED green
 Stability - LED green

 Setting
 Rated switching distance (Sn)

 Electrical connection
 Electrical connection

# ConnectionConnector, M12x1-Male, 4-pinPolarity reversal protectedyesShort-circuit protectionyes

# **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**

Ambient temperature	-2555 °C	
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms, 3x6	
EN 60068-2-6, Vibration	1055 Hz, amplitude 0.5 mm, 3x30 min	
Protection degree	IP67	
Functional safety		
MTTF (40 °C)	774 a	
Material		
Housing material	PBT	
Material sensing surface	PMMA	

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#### Mechanical data

## **Output/Interface**

Dimension	Ø 18 x 93.5 mm	Switching output	PNP normally open (NO)
Mounting	Screw M3		PNP NC Pins 4-2
	Nut M18x1		
Tightening torque max.	1.5 Nm	Range/Distance	
Oution I footune		Range	0400 mm
Optical features		Rated operating distance Sn	400 mm Adjustable
Ambient light max.	5000 Lux		
Beam characteristic	Divergent		
Light spot size	Ø 100 mm at 300 mm		
Light type	LED infrared		
Principle of optical operation	Diffuse sensor, energetic		
Switching function, optical	Light-on		
Wave length	880 nm		

#### Remarks

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

Reference object (target): gray card, 200 x 200, 90 % remission, axial approach. For additional information, refer to user's guide.

Order accessories separately.

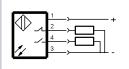
For more information about MTTF and B10d see MTTF / B10d Certificate

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**

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