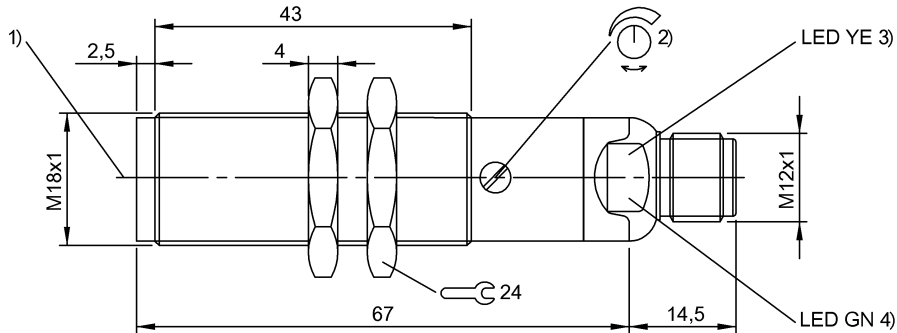


BOS 18M-PA-LD10-S4 BOS013H



1) Optical axis 2) Sn 3) Output function 4) stability



Display/Operation

Adjuster	Potentiometer 270° (1x)
Setting	Rated switching distance (Sn)

Electrical connection

Connection	M12x1-Connector, 4-pole, A-coded
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

MTTF (40 °C)	639 a
No-load current I _o max. at U _e	35 mA
Operating voltage U _b	10...30 VDC
Pulse duration t max.	6.0 µs
Rated insulation voltage U _i	75 V DC
Rated operating current I _e DC	100 mA
Rated operating voltage U _e DC	24 V
Switching frequency	1500 Hz
Turn-off delay t _{off} max.	0.33 ms
Turn-on delay t _{on} max.	0.33 ms
Voltage drop U _d max. at I _e	2 V

Environmental conditions

Ambient temperature	-10...50 °C
Protection class	II
Protection type IEC 60529	IP67

Functional safety

Diagnostic coverage	0 %
Functional safety	no
Mission Time	10 a

General data

Approval/Conformity	CE cULus
Basic standard	IEC 60947-5-2
Series	18M
Style	Cylinder Straight optics

Material

Housing material	Brass
Material sensing surface	PMMA
Surface protection	nickel plates

Mechanical data

Dimension	Ø 18 x 81.5 mm
Fastening detail	Nut M18x1
Tightening torque max.	22 Nm

Optical data

Ambient light max.	5000 Lux
Average power P _o max.	390 µW
Beam characteristic	Divergent
Laser class per IEC 60825-1	1
Light type	Laser Red light

BOS 18M-PA-LD10-S4 BOS013H

Wave length 650 nm

Ripple max. (% of Ue) 8 %

Output/Interface

Switching output PNP Normally closed (NC)
PNP Normally open (NO)

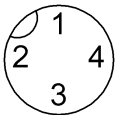
Range/Distance

Measuring range 0...350 mm
Range 0...350 mm
Rated operating distance Sn 350 mm, Adjustable

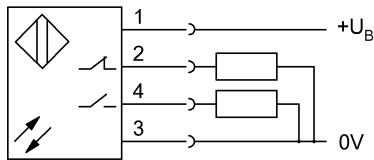
Remarks

Order accessories separately.
For additional information, refer to user's guide.
Reference object (target): gray card, 200 x 200, 90 % remission, axial approach.
The sensor is functional again after the overload has been eliminated.
For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.
Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

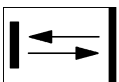
Connector view



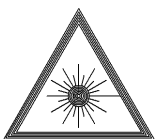
Wiring Diagram



Symbols for Optoelectronic Sensors



Warning Symbols



LASER CLASS 1 per IEC 60825-1