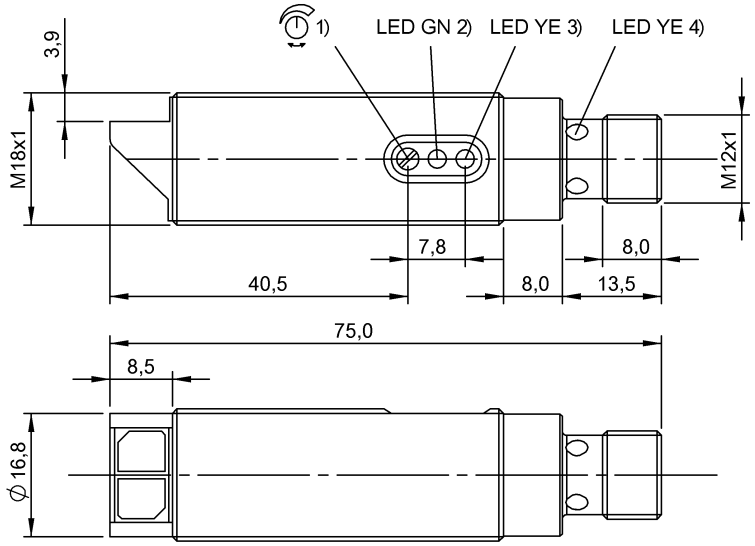
BOS 18MR-PS-1QB-E5-C-S4
BOS010L



1) Sn 2) Stability 3) Output function

CE

Display/Operation

Adjuster	Potentiometer 270° (1x)
Setting	Sensitivity (Sn)

Electrical connection

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

Electrical data

No-load current Io max. at Ue	15 mA
Operating voltage Ub	10…30 VDC
Rated operating current Ie DC	200 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	20 ms
Residual current Ir max.	100 µA
Switching frequency	1000 Hz
Turn-off delay toff max.	0.5 ms
Turn-on delay ton max.	0.5 ms
Utilization category	DC -13
Voltage drop Ud max. at Ie	2 V

Environmental conditions

Ambient temperature	-25…55 °C
Protection type IEC 60529	IP67
Reference reflector	BOS R-1

General data

Approval/Conformity	CE
Basic standard	IEC 60947-5-2
Series	18MR
Style	Cylinder Optics 90°

Material

Housing material	Brass
Material sensing surface	Glass
Surface protection	chrome plated

Mechanical data

Dimension	Ø 18 x 75 mm
Fastening detail	Nut M18x1

Optical data

Ambient light max.	10000 Lux
Light type	LED Red light
Polarizing filter	yes
Principle of optical operation	Retroreflective sensor
Wave length	660 nm

Output/Interface

Switching output	PNP Normally open (NO)

Range/Distance

Measuring range	0…2 m

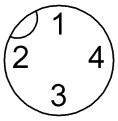
BOS 18MR-PS-1QB-E5-C-S4
BOS010L

Range	0…2 m
Rated operating distance Sn	2 m, Adjustable
Ripple max. (% of Ue)	20 %
Temperature drift max. (% of Sr)	20 %

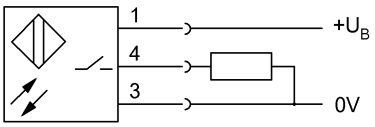
Remarks

Order accessories separately.
For additional information, refer to user's guide.
Polarizing filters prevent spurious switching due to reflecting and shiny parts.
The sensor is functional again after the overload has been eliminated.
Actuation object (target): gray card, 200 x 200, 90 % remission, lateral approach, approach direction vertical to lens axis plane.

Connector view



Wiring Diagram



Symbols for Optoelectronic Sensors