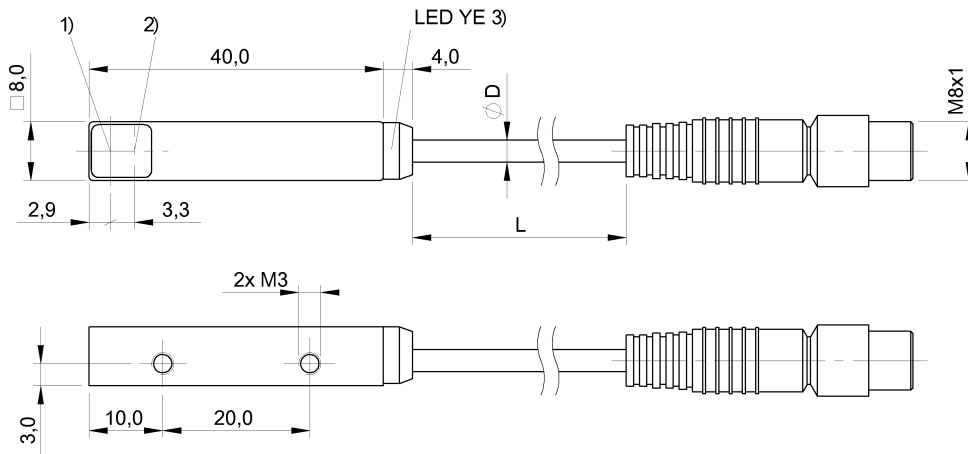


BOS Q08M-NS-LD20-0,02-S49 BOS01WK



1) Optical axis emitter 2) Optical axis receiver 3) Output function



Electrical connection

Cable diameter D	3.00 mm
Cable length	0.2 m
Connection	M8x1-Connector, 3-pole
Connection type	Cable with connector, 0.20 m, PUR
Contact, surface protection	Gold plated
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.05 µF
No-load current I _o max. at Ue	10 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	33.0 kOhm
Pollution degree	3
Protected against miswiring	yes
Pulse duration t max.	10.0 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
Ready delay t _v max.	150 ms
Residual current I _r max.	50 µA
Switching frequency	500 Hz
Turn-off delay t _{off} max.	1 ms
Turn-on delay t _{on} max.	1 ms
Utilization category	DC -13
Voltage drop U _d max. at I _e	0.7 V

Environmental conditions

Ambient temperature	-5...55 °C
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Protection type IEC 60529

IP67

General data

Approval/Conformity	cULus CE
Basic standard	IEC 60947-5-2
Series	Q08M
Style	Square Connection 90°

Material

Housing material	Zinc, Die casting
Material jacket	PUR
Material sensing surface	PMMA
Surface protection	nickel plates

Mechanical data

Dimension	8 x 44 x 8 mm
Fastening detail	Screw M3

Optical data

Ambient light max.	5000 Lux
Average power P _o max.	390 µW
Beam characteristic	Collimated
Laser class per IEC 60825-1	1
Light type	Laser Red light
Wave length	655 nm

Output/Interface

Switching output	NPN Normally open (NO)
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BOS Q08M-NS-LD20-0,02-S49 BOS01WK

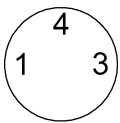
Range/Distance

Range	60 mm
Rated operating distance S_n	60 mm
Ripple max. (% of U_e)	10 %

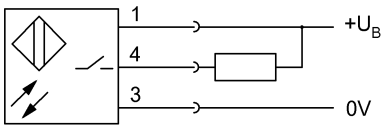
Remarks

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.
Only for applications per NFPA 79 (machines with a supply voltage of maximum 600 V). Use an R/C (CYJV2) cable with suitable properties for attaching the device.
For additional information, refer to user's guide.
Order accessories separately.

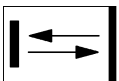
Connector view



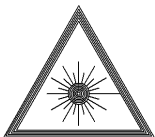
Wiring Diagram



Symbols for Optoelectronic Sensors



Warning Symbols



LASER CLASS 1 per IEC 60825-1