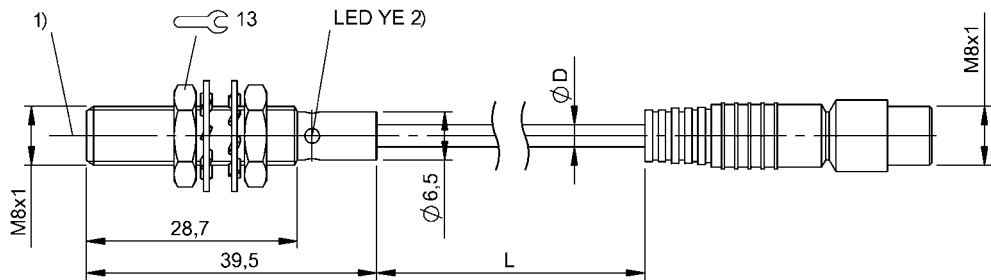


Photoelectric Sensors
BOS 08E-NS-LE20-00,2-S49
Order Code: BOS024M

BALLUFF



1) Optical axis, 2) Output function



Basic features

Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Reference emitter	BOS 08E-X-LS20-..
Series	08E

Electrical connection

Polarity reversal protected	yes
Protection against device mix-ups	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
Rated insulation voltage U _i	75 V DC
Rated operating current I _e	100 mA
Rated operating voltage U _e DC	24 V
Ready delay t _v max.	150 ms
Residual current I _r max.	50 µA
Ripple max. (% of U _e)	10 %
Switching frequency	500 Hz
Voltage drop U _d max. at I _e	0.7 V

Environmental conditions

Ambient temperature	-5...55 °C
Contamination scale	3
IP rating	IP67

Functional safety

MTTF (40 °C)	1989 a
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Material

Housing material	Stainless steel
Material sensing surface	PMMA

Mechanical data

Dimension	Ø 8 x 40 mm
Mounting part	Nut M8x1

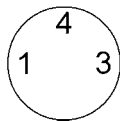
Optical features

Ambient light max.	5000 Lux
Light type	Laser red light
Principle of optical operation	Through-beam sensor (receiver)
Switching function, optical	dark-on

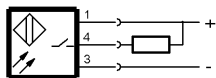
Range/Distance

Range	0...3 m
Rated operating distance S _n	3 m

Connector Drawings



Wiring Diagrams



Opto Symbols

