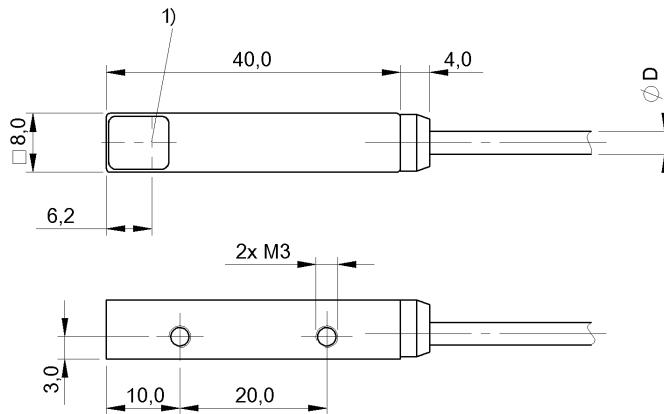


Photoelectric Sensors
BOS Q08M-X-KS21-02
Order Code: BOS01YL

BALLUFF



1) Optical axis emitter



Basic features

Approval/Conformity	cULus CE UKCA WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Series	Q08M
Style	Square Connection 90°

Electrical connection

Cable diameter D	3.00 mm
Cable length L	2 m
Conductor cross-section	0.14 mm ²
Connection	Cable, 2.00 m, PUR
Number of conductors	2
Polarity reversal protected	yes
Protection against device mix-ups	yes

Electrical data

No-load current I ₀ max. at U _e	10 mA
Operating voltage U _b	10...30 VDC
Rated insulation voltage U _i	75 V DC
Rated operating voltage U _e DC	24 V
Ripple max. (% of U _e)	10 %

Environmental conditions

Ambient temperature	-5...55 °C
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms, 3x6
EN 60068-2-6, Vibration	Half-sinus, 100 g _n , 2 ms, 3x8000
	10...2000 Hz, amplitude 1 mm, 30 g _n , 3x5 h
	10...55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

Functional safety

MTTF (40 °C)	480.6 a
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Material

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

Mechanical data

Dimension	8 x 44 x 8 mm
Mounting part	Screw M3

Optical features

Beam characteristic	Divergent	Wave length	645 nm
LED group per IEC 62471	Exempt Group	Range/Distance	
Light type	LED, red light	Range	0...2.2 m
Principle of optical operation	Through-beam sensor (Emitter)	Rated operating distance Sn	2.2 m

Remarks

Order accessories separately.

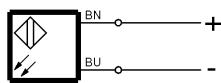
For additional information, refer to user's guide.

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 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.

Wiring Diagrams



Opto Symbols

