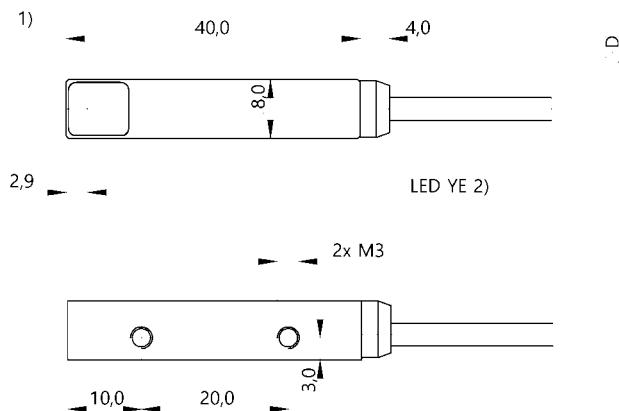


Photoelectric Sensors
BOS Q08M-PS-LE21-02
Order Code: BOS0268

BALLUFF



1) Receiver, 2) LED yellow



Basic features

Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Reference emitter	BOS Q08M-X-LS21-..
Series	Q08M
Style	Square Connection 90°

Display/Operation

Adjuster	no
Display	LED yellow: Light received

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	3
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.05 µF
No-load current I ₀ max. at Ue	10 mA
Operating voltage U _b	10...30 VDC
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
Ripple max. (% of U _e)	15 %
Switching frequency	500 Hz
Utilization category	DC-13
Voltage drop U _d max. at I _e	0.7 V

Environmental conditions

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

Functional safety

MTTF (40 °C)	182 a
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Interface

Switching output	PNP normally open (NO)
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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

Ambient light max.	5000 Lux
Light type	Laser red light
Principle of optical operation	Through-beam sensor (receiver)
Smallest part typ.	0.28 mm at 1 m. R0 = 3.0 m
Switching function, optical	dark-on

Range/Distance

Range	0...3 m
Rated operating distance Sn	3 m

Remarks

Order accessories separately.

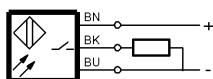
The sensor is functional again after the overload has been eliminated.

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

