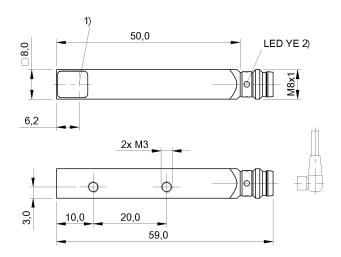
BOS Q08M-PS-KE21-S49 Order Code: BOS01Y4

BALLUFF



1) Optical axis receiver, 2) Output function



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

Display/Operation

Display	Limit range - LED yellow, flashing
	LED yellow: Light received

Electrical connection

Connection	Connector, M8x1-Male, 3-pin
Contact, surface protection	Gold plated
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 lo max. at Ue	10 mA
Operating voltage Ub	1030 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	20 ms
Ripple max. (% of Ue)	10 %
Switching frequency	500 Hz
Turn-off delay toff max.	1 ms
Turn-on delay ton max.	1 ms
Utilization category	DC -13
Voltage drop Ud max. at le	0.7 V

Environmental conditions

Ambient temperature	-555 °C
EN 60068-2-27, Shock	Half-sinus, 100 gn, 2 ms, 3x8000 Half-sinus, 30 g_n , 11 ms, 3x6
EN 60068-2-6, Vibration	1055 Hz, amplitude 1 mm, 3x30 min ₁₀ 2000 Hz, amplitude 1 mm, 30 gn, 3x5 h
IP rating	IP67
Functional safety	
MTTF (40 °C)	972.7 a

Photoelectric Sensors

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Interface

Switching output PNP normally open (NO)

Material

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

Mechanical data

Dimension 8 x 59 x 8 mm Mounting part Screw M3

Optical features

Light type Red light Through-beam sensor (receiver) Principle of optical operation Switching function, optical dark-on

Range/Distance

Range 0...2.2 m 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 sensor is functional again after the overload has been eliminated.

For more information about MTTF and B10d see MTTF / B10d Certificate

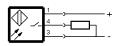
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Subject to change without notice: 240761

Connector Drawings



Wiring Diagrams



Opto Symbols

