# Photoelectric Sensors BOS Q08M-X-KS20-00,2-S49 Order Code: BOS00YH







1) Sensing surface



#### **Basic features**

CE
cULus
EAC
IEC 60947-5-2
Photoelectric sensor
BOS Q08MKE20
Q08M
Square
Connection 90°

### **Electrical connection**

Cable length L	0.2 m
Connection	Cable with connector, M8x1-Male, 3-pin, 0.20 m, PUR
Polarity reversal protected	yes
Protection against device mix-ups	yes

### **Electrical data**

No-load current lo max. at Ue	20 mA
Operating voltage Ub	1030 VDC
Rated insulation voltage Ui	75 V DC
Rated operating voltage Ue DC	24 V
Ripple max. (% of Ue)	15 %

## **Environmental conditions**

Ambient temperature EN 60068-2-27, Shock	-1060 °C Half-sinus, 100 gn, 2 ms, 3x8000
EN 60068-2-6, Vibration	Half-sinus, 30 gn, 11 ms, 3x6 1055 Hz, amplitude 1 mm, 3x30 min 102000 Hz, amplitude 1 mm, 30 gn, 3x5 h
Protection degree	IP67
Functional safety	
MTTF (40 °C)	632 a
Material	
Material Housing material	Zinc, Die casting
Material Housing material Material jacket	Zinc, Die casting PUR
Material Housing material Material jacket Material sensing surface	Zinc, Die casting PUR PMMA
Material Housing material Material jacket Material sensing surface Surface protection	Zinc, Die casting PUR PMMA nickel plated
Material Housing material Material jacket Material sensing surface Surface protection Mechanical data	Zinc, Die casting PUR PMMA nickel plated
Material Housing material Material jacket Material sensing surface Surface protection Mechanical data Dimension	Zinc, Die casting PUR PMMA nickel plated 8 x 44 x 8 mm
Material Housing material Material jacket Material sensing surface Surface protection Mechanical data Dimension Mounting	Zinc, Die casting PUR PMMA nickel plated 8 x 44 x 8 mm Screw M3

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Optical features		Smallest part typ.	0.4 mm at 1 m. R0 = 2 m	
Beam characteristic	Divergent	Wave length	655 nm	
LED group per IEC 62471 Light spot size	Exempt Group Ø 3.0 mm Light exit	Range/Distance		
Light type Principle of optical operation	Red light Through-beam sensor (Emitter)	Range Rated operating distance Sn	02.2 m 2.2 m	

## Remarks

Order accessories separately.

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.



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