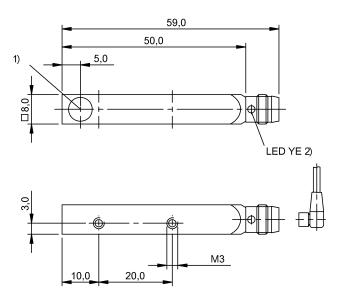


BOS Q08M-NO-RD11-S49 BOS003T



1) Sensing surface 2) Light reception/limit area





Electrical connection

ConnectionM8x1-Connector, 3-poleContact, surface protectionGold platedPolarity reversal protectedyesShort-circuit protectionyes

Electrical data

15.0 % Hysteresis H max. (% of Sr) Load capacitance max. at Ue 0.1 µF No-load current lo max. at Ue 15 mA Operating voltage Ub 10...30 VDC Output resistance Ra 33.0 kOhm Pollution degree Protected against miswiring yes Rated insulation voltage Ui 75 V DC Rated operating current le DC 100 mA Rated operating voltage Ue DC 24 V Ready delay tv max. 150 ms Repeat accuracy max. (% of Sr) 5.0 % Residual current Ir max. 50 µA Switching frequency 400 Hz Turn-off delay toff max. 1.25 ms Turn-on delay ton max. 1.25 ms Utilization category DC -13 Voltage drop Ud max. at le 2.5 V

Environmental conditions

Ambient temperature -10...60 °C Protection type IEC 60529 IP67

General data

Approval/Conformity

CE
cULus

Basic standard

IEC 60947-5-2

Series

Q08M

Style

Square
Connection 90°

Material

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

Mechanical data

Dimension 8 x 59 x 8 mm Fastening detail Screw M3

Optical data

Ambient light max. 5000 Lux

Beam characteristic Divergent

LED group per IEC 62471 Exempt Group

Light type LED Red light

Wave length 640 nm

Output/Interface

Switching output NPN Normally closed (NC)



BOS Q08M-NO-RD11-S49 BOS003T

Range/Distance

 Measuring range
 0...55 mm

 Range
 0...55 mm

 Rated operating distance Sn
 55 mm

 Ripple max. (% of Ue)
 10 %

 Temperature drift max. (% of Sr)
 10 %

Remarks

For additional information, refer to user's guide.

Order accessories separately.

The sensor is functional again after the overload has been eliminated. Reference object (target): gray card, 100 x 100 90 % remission, axial approach

For line-transmitted disturbances an external protection circuit is recommended, e.g. capacitors (>20nF) to ground, (see also Instruction for Protection Circuit Doc.-No.: 864234).

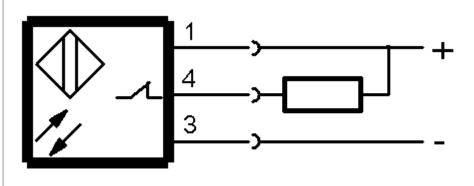
Protection Circuit Doc.-No.: 864234).

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.

Connector view



Wiring Diagram



Symbols for Optoelectronic Sensors

