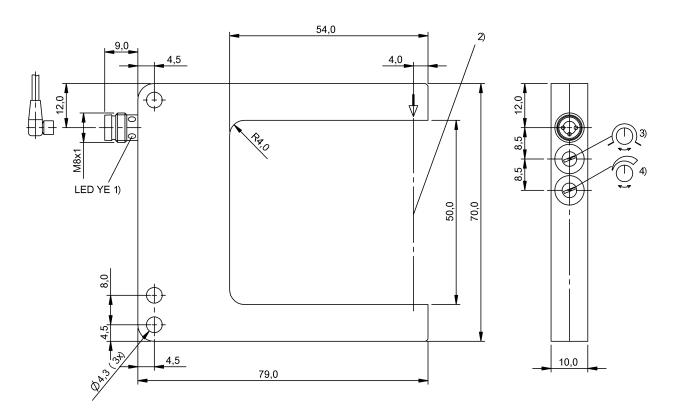
BALLUFF



1) Output function, 2) Optical axis, 3) Light-on/dark-on, 4) Sensitivity







IND. CONT. EQ 23UU for use in the secondary of a class 2 source of supply



Basic features

Approval/Conformity

CULUS

CE

EAC

WEEE

Basic standard

IEC 60947-5-2

Principle of operation

Series

A

Style

Fork

Straight connection

Electrical connection

Connection
Contact, surface protection
Polarity reversal protected
Short-circuit protection

Connector, M8x1-Male, 3-pin Gold plated yes yes

Display/Operation

Adjuster Potentiometer 270° (2x)

Display Output function- LED yellow

Setting Light-on/dark-on
Sensitivity

Photoelectric Sensors

BGL 50A-006-S49 Order Code: BGL001R



Electrical data

0.5 μF Load capacitance max. at Ue 35 mA No-load current lo max, at Ue Operating voltage Ub 10...30 VDC Rated insulation voltage Ui 75 V DC Rated operating current le 200 mA Rated operating voltage Ue DC 24 V Ready delay tv max. 200 ms Residual current Ir max. 50 μΑ Ripple max. (% of Ue) 10 % Switching frequency 5000 Hz Turn-off delay toff max. 0.1 ms Turn-on delay ton max. 0.1 ms Utilization category DC -13 Voltage drop Ud max. at le 2.5 V

Environmental conditions

Ambient temperature -10...60 °C EN 60068-2-27, Shock Half-sinus, 30 gn, 11 ms, 3x6 EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min **Protection degree** IP67 **Functional safety**

307 a

Material

Housing material Zinc, Die casting, Painted Material sensing surface Glass Surface protection Painted

Mechanical data

Dimension 10 x 70 x 88 mm Fork opening 50 mm Mounting Screw M4

Optical features

Ambient light max. 5000 Lux Beam characteristic Divergent Light spot size Ø 1.5 mm Light exit microSPOT-LED red light Light type Principle of optical operation Through-beam sensor Smallest part typ. 0.30 mm Switching function, optical dark-on/light-on 640 nm Wave length

Output/Interface

Switching output NPN normally open/normally closed (NO/NC)

Range/Distance

Hysteresis H max. 0.1 mm Repeat accuracy lateral max. 30 µm

Remarks

MTTF (40 °C)

Order accessories separately.

For additional information, refer to user's guide.

Factory default setting for switching output: Normally open.

Reference object (target): Steel plate, 50 x 50, thickness 0.5 mm, lateral approach.

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.

Subject to change without notice: 158499

Connector Drawings



Photoelectric Sensors BGL 50A-006-S49 Order Code: BGL001R

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Wiring Diagrams		
1 - + + + + - + - + - + - + - + - + - +		
Opto Symbols		