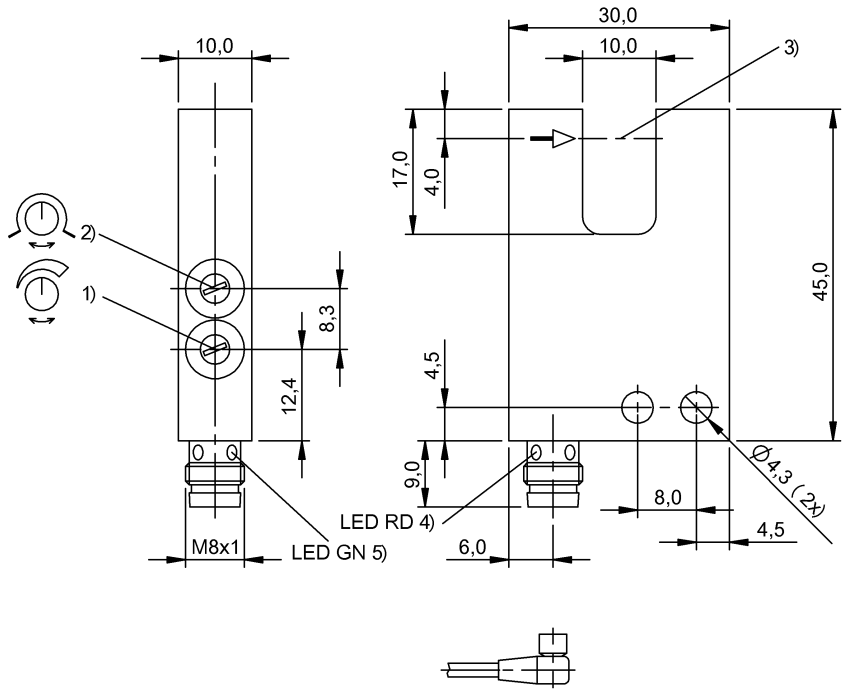
Photoelectric Sensors

BGL 10A-007-S49
Order Code: BGL0005



1) Sensitivity, 2) Light-on/dark-on, 3) Optical axis, 4) Output function, 5) Operating voltage

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

Basic features

Approval/Conformity	CE cULus EAC WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Fork sensor
Series	A
Style	Fork Straight connection

Display/Operation

Adjuster	Potentiometer 270° (2x)
Display	Output function- LED yellow LED green: Power
Setting	Light-on/dark-on Sensitivity

Electrical connection

Connection	Connector, M8x1-Male, 3-pin
Contact, surface protection	Gold plated
Polarity reversal protected	yes
Short-circuit protection	yes

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Electrical data

Load capacitance max. at Ue	0.5 µF
No-load current Io max. at Ue	25 mA
Operating voltage Ub	10...30 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	200 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	200 ms
Residual current Ir max.	50 µA
Ripple max. (% of Ue)	10 %
Switching frequency	3000 Hz
Turn-off delay toff max.	0.167 ms
Turn-on delay ton max.	0.167 ms
Utilization category	DC -13
Voltage drop Ud max. at Ie	3 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

Material

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

Mechanical data

Dimension	10 x 30 x 54 mm
Fork opening	10 mm
Mounting	Screw M4

Optical features

Ambient light max.	5000 Lux
Beam characteristic	Divergent
Light spot size	Ø 2.0 mm Light exit
Light type	Infrared
Principle of optical operation	Through-beam sensor
Smallest part typ.	0.80 mm
Switching function, optical	dark-on/light-on
Wave length	880 nm

Output/Interface

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

Range/Distance

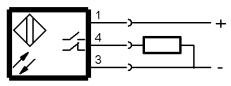
Hysteresis H max.	0.3 mm
Repeat accuracy lateral max.	100 µm

Remarks

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.

Connector Drawings

Wiring Diagrams



Opto Symbols