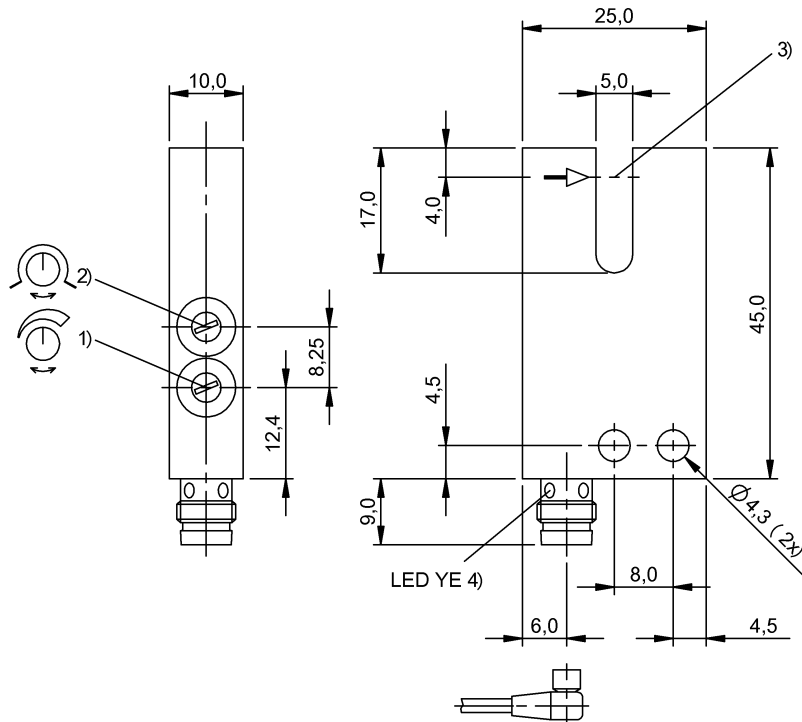


BGL 5A-001-S49
BGL001W



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



Display/Operation

Adjuster	Potentiometer 270° (2x)
Setting	Sensitivity Light-on/dark-on

Repeat accuracy lateral max.	20 µm
Residual current I _r max.	50 µA
Switching frequency	3000 Hz
Turn-off delay t _{off} max.	0.167 ms
Turn-on delay t _{on} max.	0.167 ms
Utilization category	DC -13
Voltage drop U _d max. at I _e	3 V

Electrical connection

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

Environmental conditions

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

Electrical data

Hysteresis H max.	0.1 mm
Load capacitance max. at U _e	0.5 µF
No-load current I _o max. at U _e	25 mA
Operating voltage U _b	10...30 VDC
Protected against miswiring	yes
Rated insulation voltage U _i	75 V DC
Rated operating current I _e DC	200 mA
Rated operating voltage U _e DC	24 V
Ready delay t _v max.	200 ms

General data

Approval/Conformity	CE cULus
Basic standard	IEC 60947-5-2
Series	A
Style	Fork Straight connection
Trademark	Global

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Material

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

Mechanical data

Dimension	10 x 25 x 54 mm
Fastening detail	Screw M4
Fork opening	5 mm
Smallest part typ.	0.30 mm

Optical data

Ambient light max.	5000 Lux
Beam characteristic	Divergent
Light type	LED Red light
Principle of optical operation	Through-beam sensor
Wave length	636 nm

Output/Interface

Switching output	PNP Normally open/Normally closed (NO/NC)
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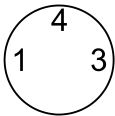
Range/Distance

Ripple max. (% of Ue)	10 %
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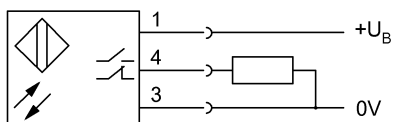
Remarks

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 view



Wiring Diagram



Symbols for Optoelectronic Sensors

