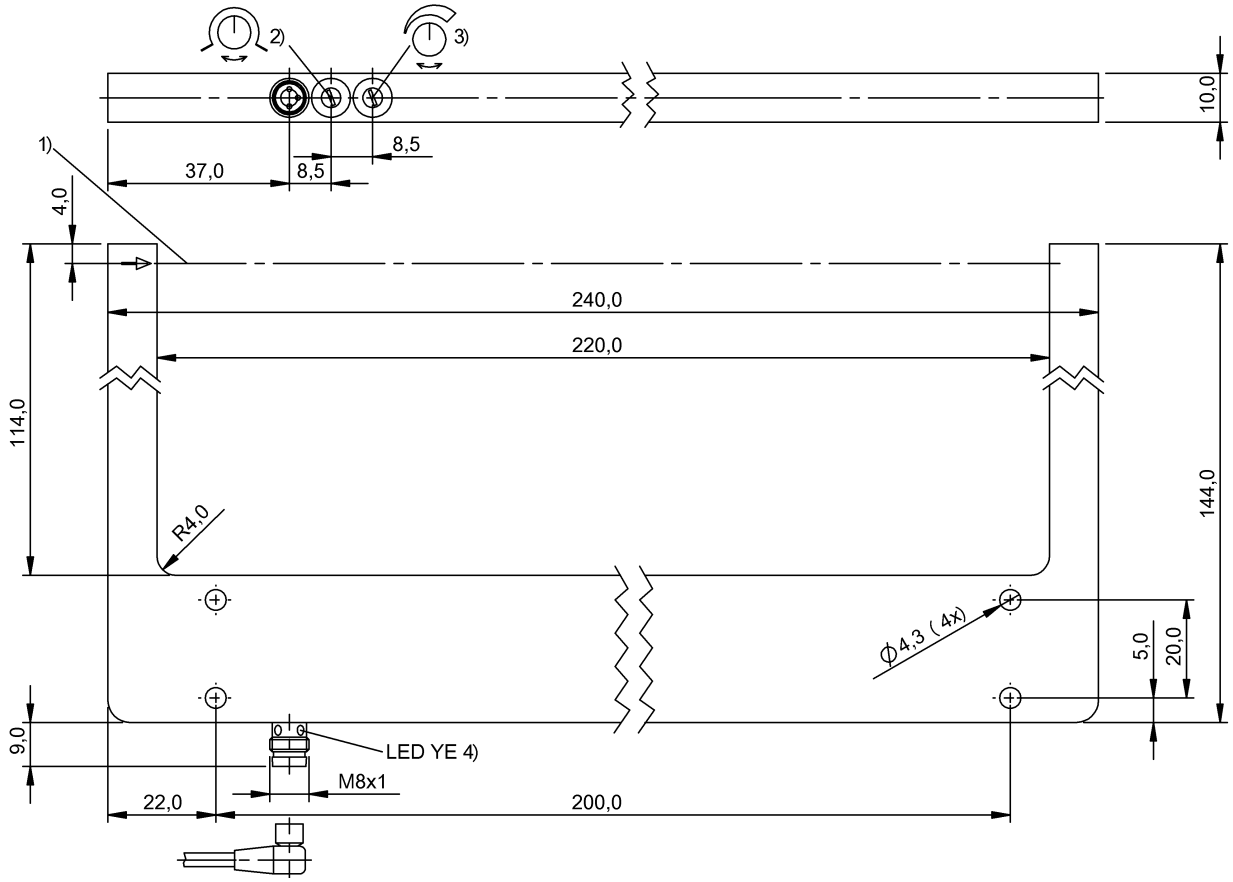
Photoelectric Sensors

BGL 220A-001-S49

Ordercode: BGL0010



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

Display/Operation

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

Electrical connection

Connection	M8x1-Male, 3-pole
Contact, surface protection	Gold plated
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Hysteresis H max.	0.2 mm
Load capacitance max. at Ue	1 µF
No-load current Io max. at Ue	35 mA
Operating voltage Ub	10…30 VDC
Polarity reversal protected	yes
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
Repeat accuracy lateral max.	80 µm
Residual current Ir max.	50 µA
Ripple max. (% of Ue)	10 %
Switching frequency	3000 Hz
Turn-off delay toff max.	0.333 ms
Turn-on delay ton max.	0.333 ms
Utilization category	DC-13
Voltage drop Ud max. at Ie	3 V

Environmental conditions

Ambient temperature	-10…60 °C
IP rating per IEC 60529	IP67

General data

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

Photoelectric Sensors
BGL 220A-001-S49
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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	220 mm

Optical data

Ambient light max.	5000 Lux
Beam characteristic	Divergent
Light spot size	Ø 2.5 mm Light exit
Light type	LED Red light
Principle of optical operation	Through-beam sensor
Smallest part typ.	0.60 mm
Wave length	636 nm

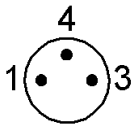
Output/Interface

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

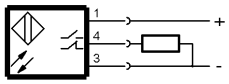
Remarks

Order accessories separately.
For additional information, refer to users 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

