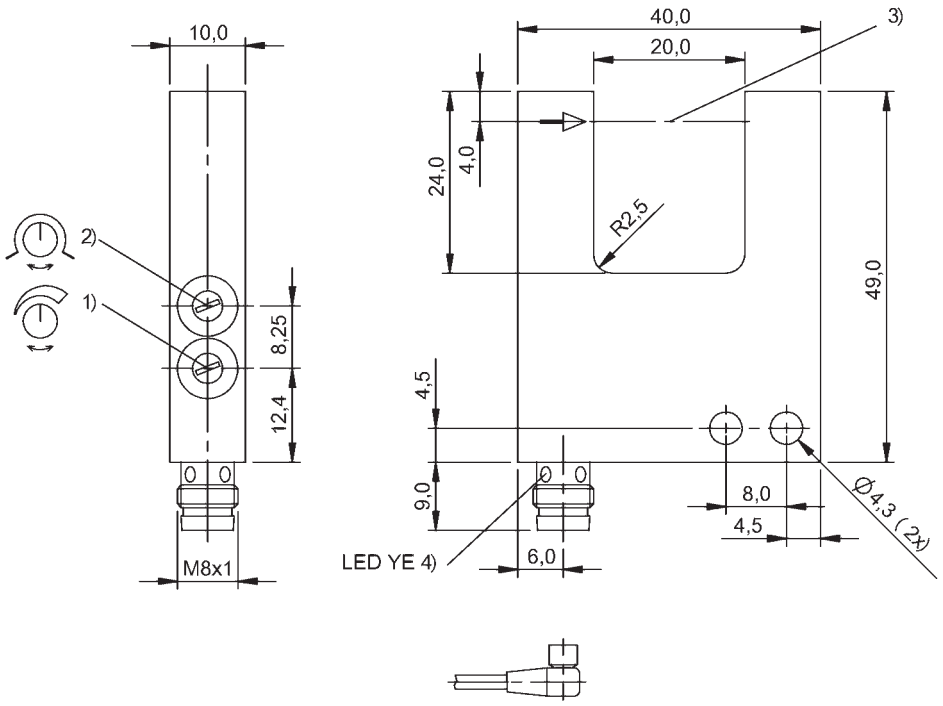
Slot sensor

BGL 20A-001-S49
BGL000R





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

- **Slot sensor**
- **Series A**
- **LED, red light**
- **20 mm**

General attributes

Adjuster	Potentiometer, 270° (2x)
Approvals / Conformity	CE
	cULus
Basic standard	IEC 60947-5-2
Enclosure Type per IEC 60529	IP67
Indicator	Output function - LED YE
Polarity reversal protected	Yes
Series	Series A
Setting	Sensitivity
	Light-on/dark-on
Short circuit protected	Yes
Trademark	GLOBAL

Electrical attributes

Connection type	Connector
Eff. operating current Ie	200 mA
Eff. operating voltage Ue DC	24.0 V
Electrical version	DC, direct current
Hysteresis H max.	0.080 mm
Load capacitance max. (at Ue)	1.00 µF
No-load current max. Io at Ue	35 mA
Operating voltage UB max. DC [V]	30.0 V
Operating voltage UB min. DC [V]	10.0 V
Rated insulation voltage Ui	75 V DC
Ripple max. (% of Ue)	10 %
Switching freq. f max. (at Ue)	1500 Hz
Switching function	NO/NC
Switching output	PNP (1X)
Turn on time ton max.	0.333 ms
Voltage drop Ud max. (at Ie)	3.0 V

Mechanical attributes

Ambient temperature Ta max.	60 °C
Ambient temperature Ta min.	-10 °C
Connector type	M8x1-S49
Fork width	20 mm
Housing material	GD-Zn
Length 1	5.0 mm
Length 2	58.0 mm
Length 3	40.0 mm
Mounting type	Screw M4
Repeat accuracy lateral max.	20 µm
Sensing face material	Glass
Style	Slot, straight connection
Surface protection	Painted

Optical attributes

Ambient light max.	5,000 Lux
Light spot size, typical	Ø1.0 mm light exit
Light type	LED, red light
Principle of optical operation	Through-beam
Switching function, optical	NO/NC: dark-on/light-on
Wavelength	636 nm

Remarks
Order accessories separately.
For additional information, refer to user's guide.
Factory default setting for switching output: Normally open.
Reference object (test target): Steel sheet metal, 50 x 50, thickness0.5 mm, lateral approach.
The sensor is functional again after the overload has been eliminated.
Only for NFPA 79 applications (machines with a supply voltage of maximum 600 volts).
Device shall be connected only by using any R/C (CYJV2) cord, having suitable ratings.

