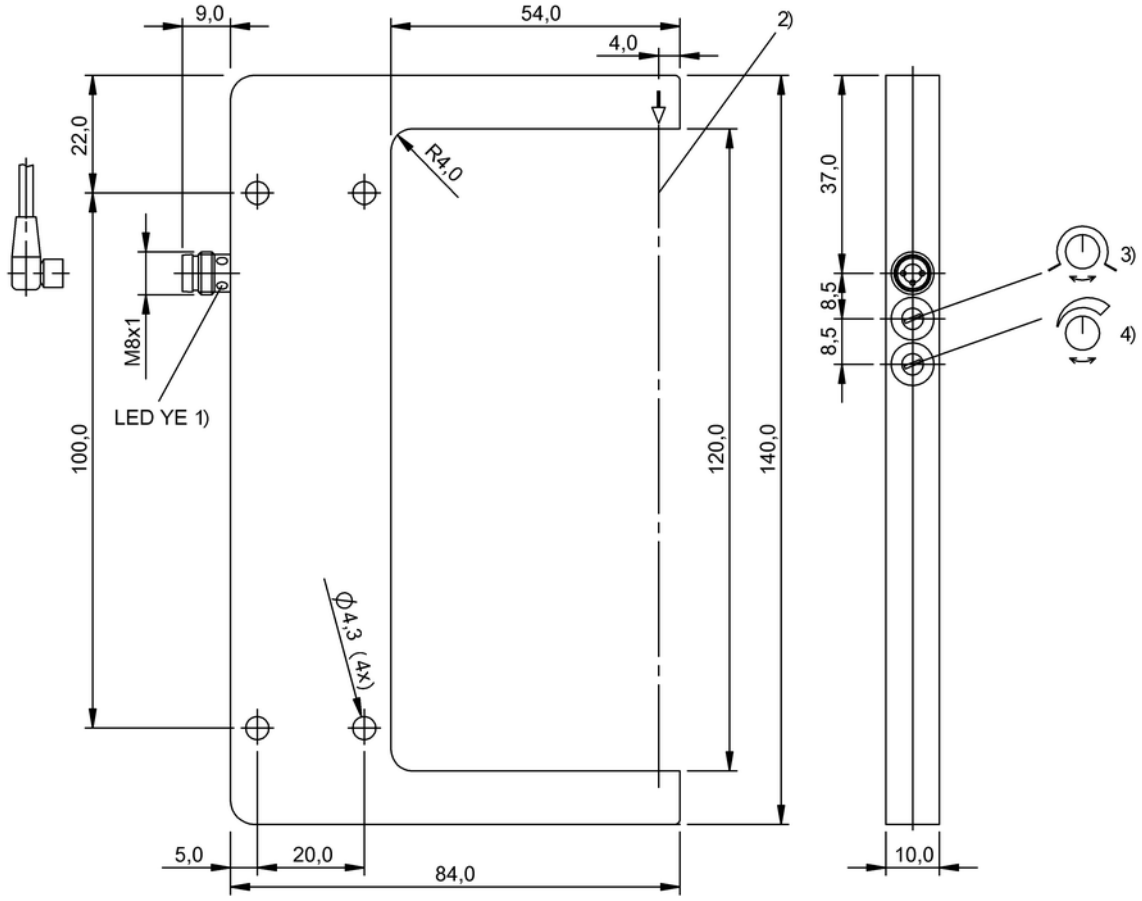
BGL 120A-001-S49
Order code: BGL0007

BALLUFF
sensors worldwide

Slot sensor
Series A GLOBAL
120 mm

DC, direct current
PNP (1X)
NO/NC: dark-on/light-on
1500 Hz
LED, red light





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

Basic data

Operating voltage UB DC	10.0 V... 30.0 V
Eff. operating voltage Ue DC	24.0 V
Ripple max. (% of Ue)	10 %
No-load current max. Io at Ue	35 mA
Polarity reversal protected	Yes
Rated insulation voltage Ui	75 V DC
Indicator	Output function - LED YE
Adjuster	Potentiometer, 270° (2x)
Setting	Sensitivity Light-on/dark-on
Ambient temperature Ta	-10 °C... 60 °C

Optical data

Principle of optical operation	Through-beam
Light type	LED, red light
Wavelength	636 nm
Light spot size, typical	Ø2.5 mm light exit
Beam characteristic	Divergent
Repeat accuracy lateral max.	80 µm
Smallest part, typical	0.50 mm
Ambient light max.	5,000 Lux

Electrical data

Switching output	PNP (1X)
Switching function	NO/NC
Eff. operating current Ie	200 mA
Switching freq. f max. (at Ue)	1500 Hz
Turn on time ton max.	0.333 ms
Turn off time toff max.	0.333 ms
Voltage drop Ud max. (at Ie)	3.0 V
Hysteresis H max.	0.200 mm
Short circuit protected	Yes
Load capacitance max. (at Ue)	1.00 µF

Mechanical data

Style	Slot, straight connection
Fork width	120 mm
Dimensions	10.0 mm x 93.0 mm x 140.0 mm
Mounting type	Screw M4
Housing material	GD-Zn
Surface protection	Painted
Sensing face material	Glass
Degree of protec. per IEC60529	IP67
Connection type	Connector
Connector type	M8x1-S49

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Approval

Approvals / Conformity	CE cULus

Remarks

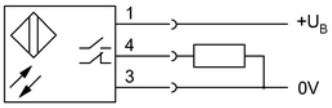
Basic standard	IEC 60947-5-2

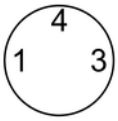
The sensor is functional again after the overload has been eliminated.

Reference object (test target): Steel sheet metal, 50 x 50, thickness 0.5 mm, lateral approach.
Factory default setting for switching output: Normally open.
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.
For additional information, refer to user's guide.
Order accessories separately.

Definitions see general catalog

Subject to change without notice.





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