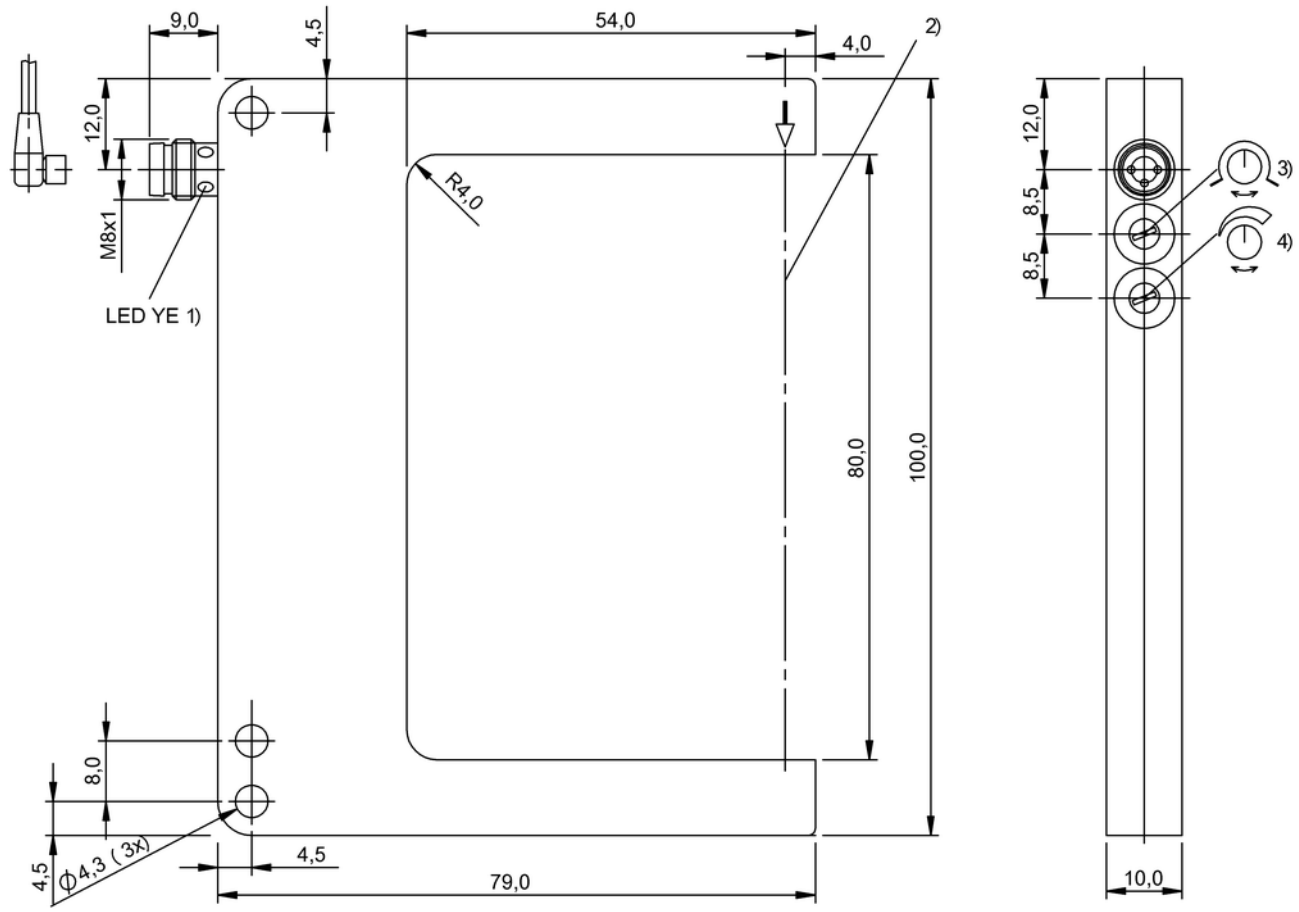
BGL 80A-003-S49
Order code: BGL0025

Slot sensor
Series A
80 mm

DC, direct current
PNP (1X)
NO/NC: dark-on/light-on
5000 Hz
Laser red light

LASER CLASS 1 per IEC 60825-1: 2003-10



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	20 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	Laser red light
Wavelength	655 nm
Laser Class per IEC 60825-1	1
Average power Po max.	< 390 µW (IEC 60825-1)
Light spot size, typical	Ø0.3 mm light exit
Beam characteristic	Collimated
Repeat accuracy lateral max.	10 µm
Smallest part, typical	0.10 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)	5000 Hz
Turn on time ton max.	0.100 ms
Turn off time toff max.	0.100 ms
Voltage drop Ud max. (at Ie)	3.0 V
Hysteresis H max.	0.030 mm
Short circuit protected	Yes
Load capacitance max. (at Ue)	0.50 µF

Mechanical data

Style	Slot, straight connection
Fork width	80 mm
Dimensions	10.0 mm x 88.0 mm x 100.0 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

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Balluff China: +86 21 5089 9970

BGL 80A-003-S49
Order code: BGL0025

BALLUFF
sensors worldwide

Slot sensor
Series A
80 mm

DC, direct current
PNP (1X)
NO/NC: dark-on/light-on
5000 Hz
Laser red light

Connector type	M8x1-S49

Approval

Approvals / Conformity	CE cULus

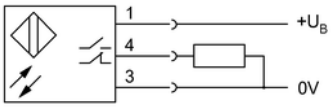
Remarks

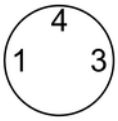
Basic standard	IEC 60947-5-2

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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