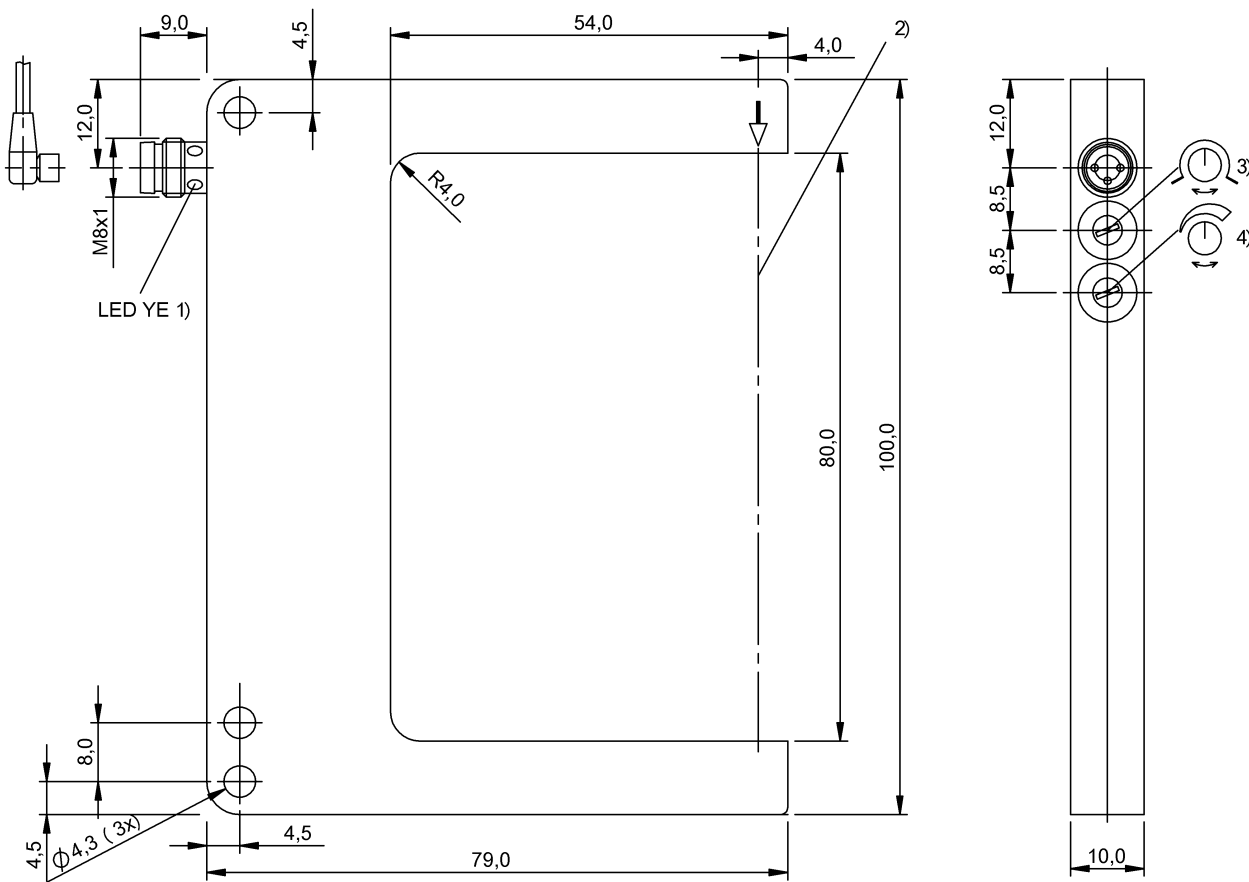


BGL 80A-001-S49 BGL0023



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



Display/Operation

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

Electrical connection

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

Electrical data

Hysteresis H max.	0.2 mm
Load capacitance max. at Ue	1 µF
MTTF (40 °C)	307 a
No-load current I _o max. at Ue	35 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
Repeat accuracy lateral max.	60 µm
Residual current I _r max.	50 µA
Switching frequency	1500 Hz
Turn-off delay t _{off} max.	0.333 ms
Turn-on delay t _{on} max.	0.333 ms
Utilization category	DC -13
Voltage drop U _d max. at Ie	3 V

Environmental conditions

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

Functional safety

Diagnostic coverage	0 %
Functional safety	no
Mission Time	10 a

General data

Approval/Conformity	CE cULus
Basic standard	IEC 60947-5-2

BGL 80A-001-S49 BGL0023

Series	A
Style	Fork Straight connection
Trademark	Global

Wave length 636 nm

Material

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

Output/Interface

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

Range/Distance

Ripple max. (% of Ue) 10 %

Mechanical data

Dimension	10 x 100 x 88 mm
Fastening detail	Screw M4
Fork opening	80 mm
Smallest part typ.	0.40 mm

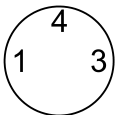
Remarks

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.
For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.
Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

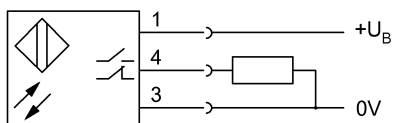
Optical data

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

Connector view



Wiring Diagram



Symbols for Optoelectronic Sensors

