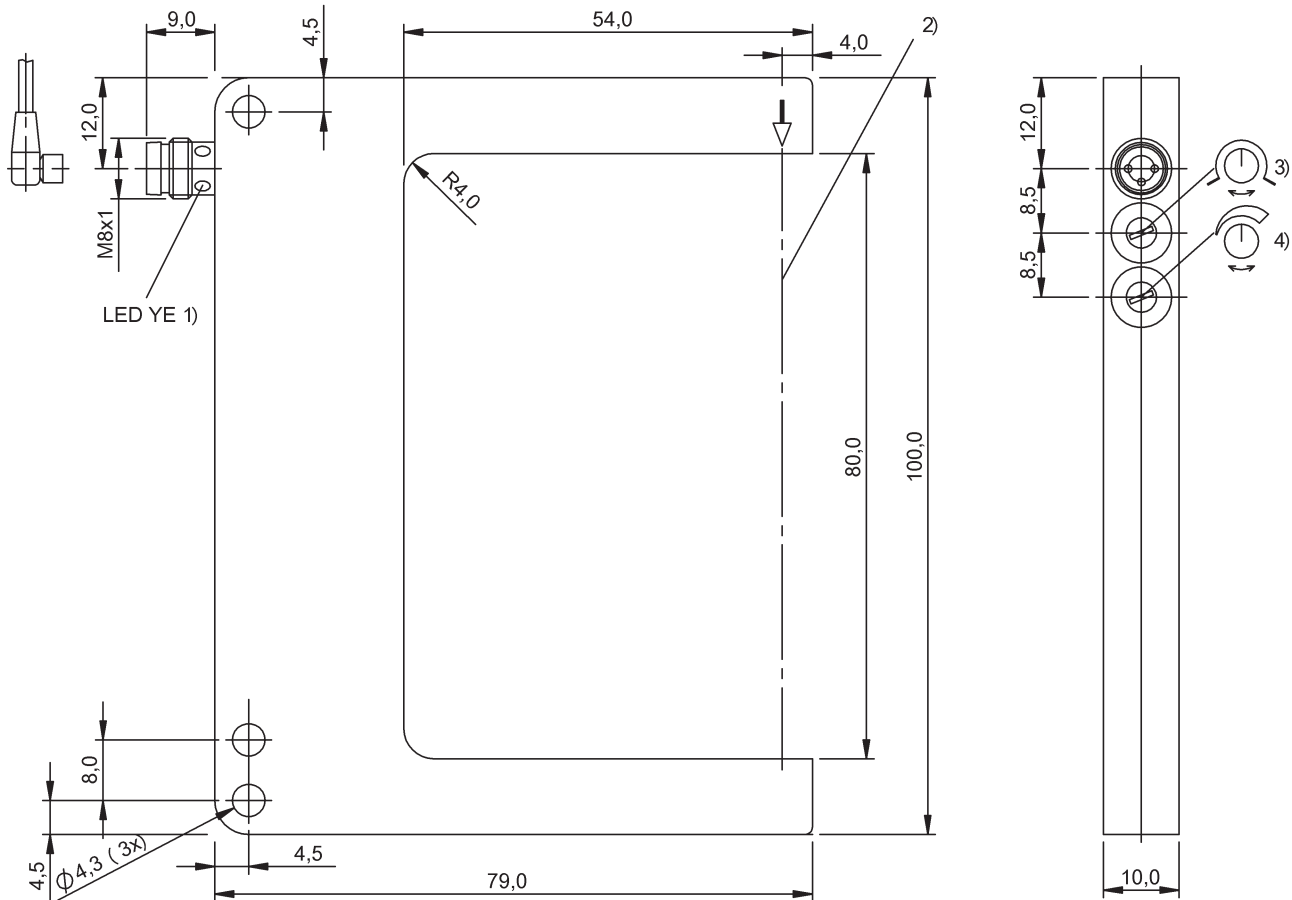


Slot sensor

BGL 80A-001-S49
BGL0023

BALLUFF



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

- Slot sensor
- Series A
- LED, red light
- 80 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
 Short circuit protected Yes
 Trademark GLOBAL
 MTTF (40°C) 307 a

Electrical attributes

Connection type Connector
 Eff. operating current I_e 200 mA
 Eff. operating voltage U_e DC 24.0 V
 Electrical version DC, direct current
 Hysteresis H max. 0.200 mm
 Load capacitance max. (at U_e) 1.00 µF
 No-load current max. I_o at U_e 35 mA
 Operating voltage U_B max. DC [V] 30.0 V
 Operating voltage U_B min. DC [V] 10.0 V
 Rated insulation voltage U_i 75 V DC
 Ripple max. (% of U_e) 10 %
 Switching freq. f max. (at U_e) 1500 Hz

Switching function
 Switching output PNP (1X)
 Turn on time t_{on} max. 0.333 ms
 Voltage drop U_d max. (at I_e) 3.0 V

Mechanical attributes

Ambient temperature T_a max. 60 °C
 Ambient temperature T_a min. -10 °C
 Connector type M8x1-S49
 Fork width 80 mm
 Housing material GD-Zn
 Length 1 10.0 mm
 Length 2 88.0 mm
 Length 3 100.0 mm
 Mounting type Screw M4
 Repeat accuracy lateral max. 60 µm
 Sensing face material Glass
 Style Slot, straight connection
 Surface protection Painted

Optical attributes

Ambient light max. 5,000 Lux
 Light spot size, typical Ø2.0 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

Slot sensor

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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, thickness 0.5 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.

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.

