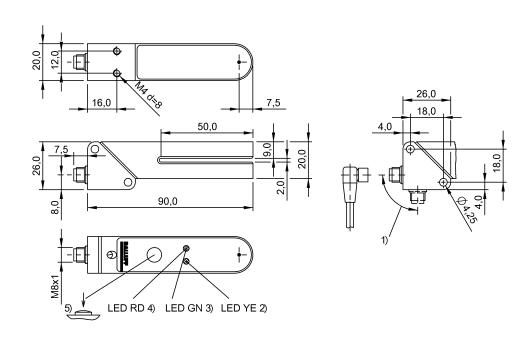
# **BALLUFF**



1) rotatable 180°, 2) Output function, 3) stability/error, 4) Fail/short circuit/error, 5) Sensitivity, light/dark





Basic features		Electrical connection	
Approval/Conformity  Basic standard	CE UKCA WEEE IEC 60947-5-2	Connection Polarity reversal protected Short-circuit protection	Connector, M8x1-Male, 4-pin yes yes
Principle of operation Series	Fork sensor	Electrical data	
Style  Display/Operation	Fork Connection can be rotated	Load capacitance max. at Ue No-load current lo max. at Ue Operating voltage Ub Rated insulation voltage Ui	1 μF 55 mA 1030 VDC 75 V DC
Adjuster Display  Setting	button Fail - LED red Output function- LED yellow Ready - LED green Error - LED red+green, flashing Short circuit - LED red, flashing Sensitivity Light-on/dark-on	Rated operating current le Rated operating voltage Ue DC Ripple max. (% of Ue) Switching frequency Turn-off delay toff max. Turn-on delay ton max. Utilization category Voltage drop Ud max. at le	100 mA 24 V 8 % 25000 Hz 0.02 ms 0.02 ms DC -13 2 V

Subject to change without notice: 160872

#### **Photoelectric Sensors**

## BGL 21-RG

# Order Code: BGL002M



#### **Environmental conditions**

Ambient temperature -20...60 °C EN 60068-2-27, Shock Half-sinus, 30 g<sub>n</sub>, 11 ms, 3x6 EN 60068-2-6, Vibration

55 Hz, amplitude 1 mm, 3x30 min

IP65

#### Interface

IP rating

Switching output NPN normally open/normally

closed (NO/NC)

PNP normally open/normally

closed (NO/NC)

#### Material

Housing material Aluminium, Anodized

Material sensing surface Glass Surface protection Anodized

#### Mechanical data

Dimension 20 x 26 x 90 mm Fork opening 2 mm Mounting part Screw M4

#### Optical features

Ambient light max. Beam characteristic Light spot size Light type

Principle of optical operation Smallest part typ.

Switching function, optical

Wave length

10000 Lux Divergent

0.5 x 4 mm Light exit green light/red light

Through-beam sensor

0.50 mm dark-on/light-on 536 nm/636 nm

#### Remarks

Order accessories separately.

For additional information, refer to user's guide.

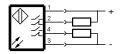
Reference object (target): Steel plate, 50 x 50, thickness 0.5 mm, lateral approach.

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

# **Connector Drawings**



### Wiring Diagrams



## Opto Symbols

