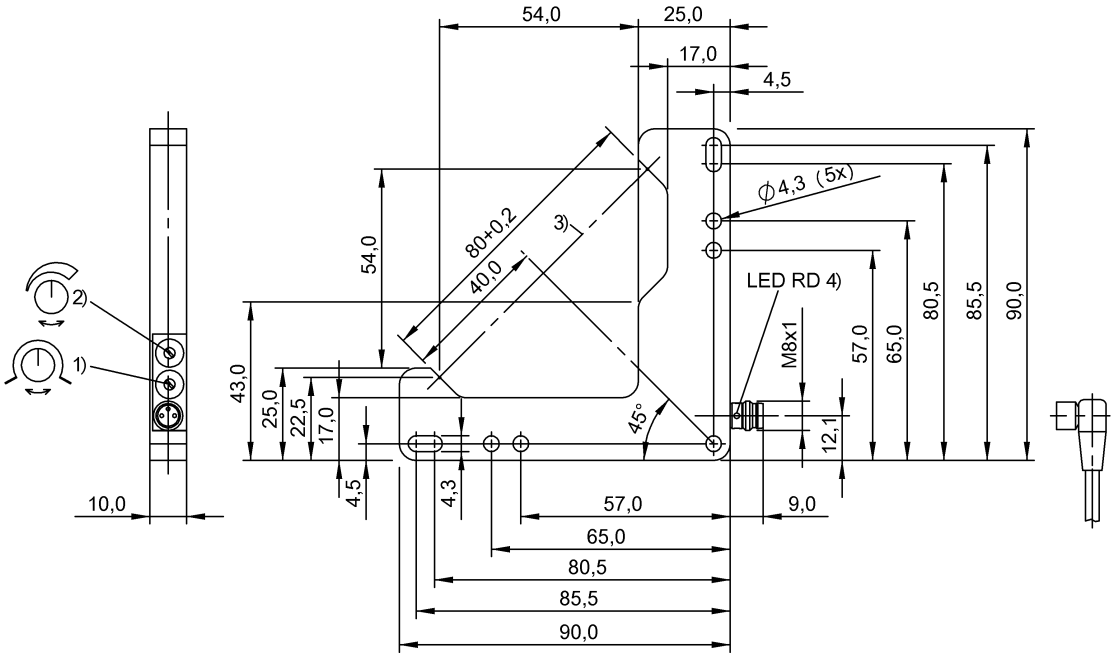
BWL 5454D-R011-S49
Order Code: BWL000R



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

IND. CONT. EQ
23UU
for use in the secondary of
a class 2 source of supply

Basic features

Approval/Conformity	CE cULus EAC WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Angle sensor
Series	D
Style	Angle Straight connection
Trademark	Global

Display/Operation

Adjuster	Potentiometer 270° (2x)
Display	Output function- LED yellow
Setting	Sensitivity Light-on/dark-on

Electrical connection

Connection	Connector, M8x1-Male, 3-pin
Contact, surface protection	Gold plated
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Photoelectric Sensors

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Electrical data

Load capacitance max. at Ue	1 µF
No-load current Io max. at Ue	35 mA
Operating voltage Ub	10...30 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	200 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	200 ms
Residual current Ir max.	50 µA
Ripple max. (% of Ue)	10 %
Switching frequency	1500 Hz
Turn-off delay toff max.	0.33 ms
Turn-on delay ton max.	0.33 ms
Utilization category	DC -13
Voltage drop Ud max. at Ie	3 V

Environmental conditions

Ambient temperature	-10...60 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 100 gn, 2 ms, 3x8000 Half-sinus, 30 gn, 11 ms, 3x6
EN 60068-2-6, Vibration	10…2000 Hz, amplitude 1 mm, 30 gn, 3x5 h
Protection degree	IP67

Material

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

Mechanical data

Dimension	10 x 90 x 99 mm
Mounting	Screw M4

Optical features

Ambient light max.	5000 Lux
Beam characteristic	Divergent
Light spot size	Ø 2.0 mm Light exit
Light type	LED, red light
Principle of optical operation	Through-beam sensor
Smallest part typ.	0.40 mm
Switching function, optical	dark-on/light-on
Wave length	636 nm

Output/Interface

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

Range/Distance

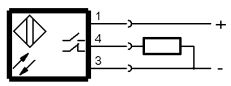
Hysteresis H max.	0.2 mm

Remarks

Reference object (target): Steel plate, 50 x 50, thickness 0.5 mm, lateral approach.
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.
Order accessories separately.
For additional information, refer to user's guide.
Factory default setting for switching output: Normally open.
The sensor is functional again after the overload has been eliminated.

Connector Drawings

Wiring Diagrams



Opto Symbols