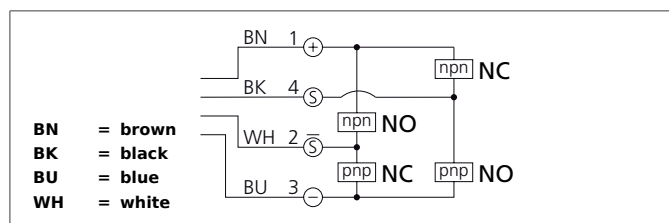


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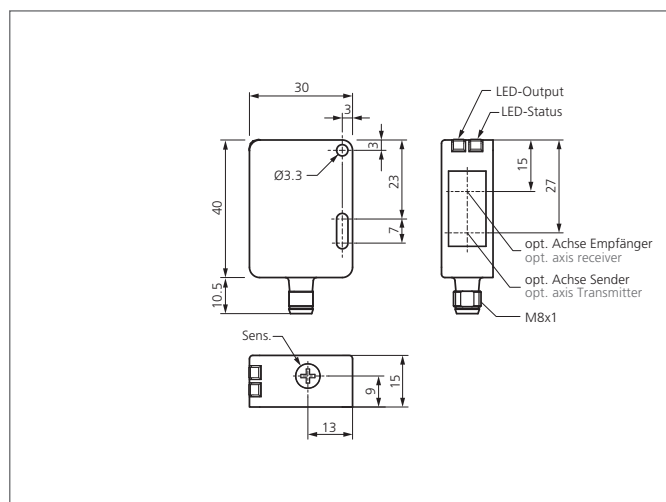
Laser Diffuse Sensor with Background Suppression

- Vibration-save 10-turn adjustment for finest adjustment
- Red light laser, with small laser spot
- Optical background suppression
- Push-pull pnp + npn
- High resolution, switching accuracy, switching frequency
- Functional reserve indicator
- Robust metal casing
- All-purpose mounting



Safety instructions

Inproper use may result in hazardous radiation exposure. Pay attention to accident prevention rules and laser class. The instruments are not to be used for safety applications, in particular applications in which safety of persons depends on proper operation of the instruments. These instruments shall exclusively be used by qualified personnel.



TECHNICAL INFORMATION (typ.)		+20°C, 24V DC
Operating principle		Diffuse reflective sensor
Evaluation		digital
Size		40 x 30 x 15 mm (Dimensions)
Design		cuboid design
Emitted light		Red light laser, 650 nm, clocked
Laser class		1 (IEC 60825-1)
Service voltage		10 ... 30 V DC
No-load current		< 25 mA
background suppression		yes
Light spot size		Ø 2 mm
Operating distance		30 ... 350 mm (350 ... 600 mm as diffuse reflective sensor)
Sensitivity adjustment		10-turn adjustment
Switching output		Push pull, exclusive OR, NO/NC
Switching hysteresis		1,5 %
Shock-/vibration load		10 ... 55 Hz / 1,0 mm / 30 g
Display		LED: green - operation, yellow - output
Voltage drop		< 2,0 V
Switching frequency		1000 Hz
Ambient temperature, operation		-10 ... +50 °C
Ambient light immunity		20 kLx
Insulation voltage endurance		500 V
Protection class		IP 67
Protection degree		III, operation on protective low voltage

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Laser Diffuse Sensor with Background Suppression

TECHNICAL INFORMATION (typ.)		+20°C, 24V DC
Casing material		Die-cast zinc black lacquered finish
Material		polycarbonate (Window)
Connection		Connector, M8, 4-poled
Connecting cable		TK ... /4