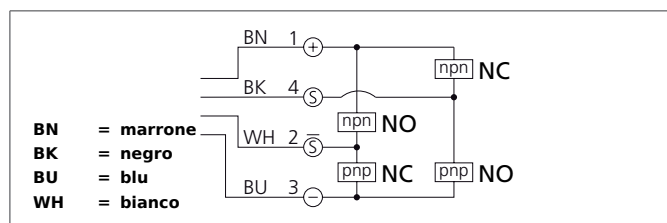


## LH 41 M 350 G4L-T4

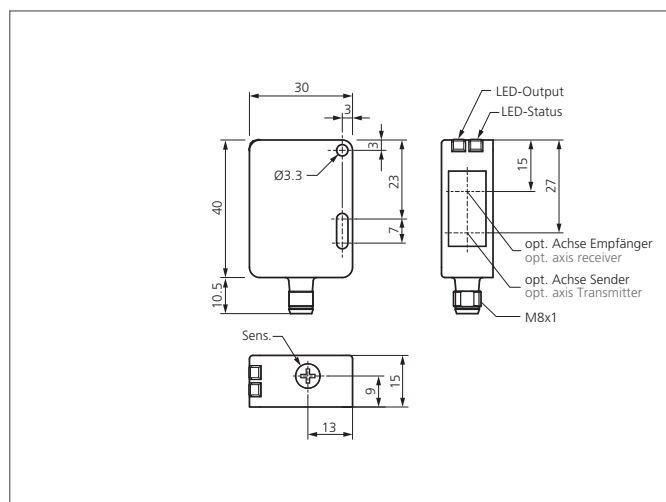
### Laser Diffuse Sensor with Background Suppression

- 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                    |

## LH 41 M 350 G4L-T4



### 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                            |