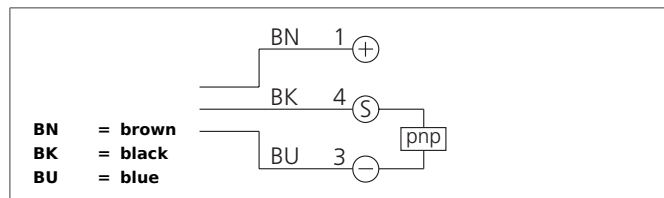


# OTVTI 51 M 150 P3K-IBS

## Diffuse Sensor

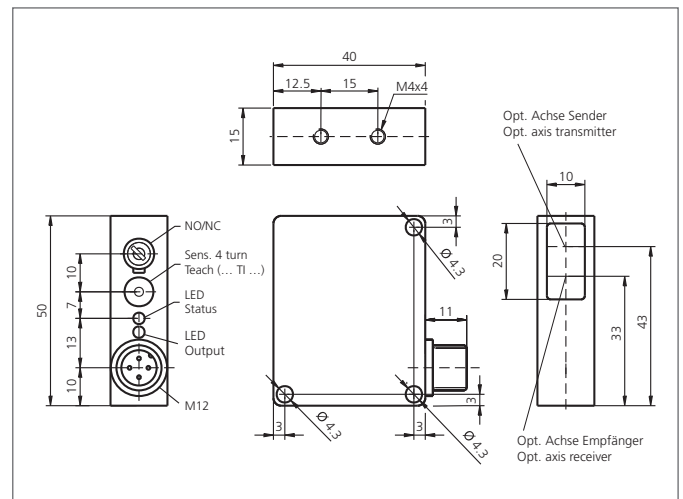


- Red light
- Teach function
- Bright LED
- Dark-/light switching, push-pull
- Functional reserve indicator/contamination indicator
- Robust metal casing



### Safety instructions

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.) |                                            |
|------------------------------|--------------------------------------------|
| Operating principle          | +20°C, 24V DC<br>Diffuse reflective sensor |
| Evaluation                   | digital                                    |
| Size                         | 50 x 40 x 15 mm (Dimensions)               |
| Design                       | cuboid design                              |
| Emitted light                | Red, 660 nm, clocked                       |
| Standardized measuring plate | 200 x 200 mm, white 90 % reflexion         |
| Service voltage              | 10 ... 35 V DC                             |
| Internal power consumption   | < 40 mA                                    |
| background suppression       | no                                         |
| Operating distance           | 15 ... 150 mm                              |
| Sensitivity adjustment       | Teach key                                  |
| Switching output             | pnp, 200 mA, NO/NC, switchable             |
| Switching hysteresis         | < 12 %                                     |
| Voltage drop                 | < 2,0 V                                    |
| Switching frequency          | 1.000 Hz                                   |
| Response-/release time       | < 0,5 ms / < 0,5 ms                        |
| Reproducibility              | < 1 %                                      |
| Ambient temperature          | -10 ... +60 °C                             |
| Temperature drift            | 0,3 %/K                                    |
| Ambient light immunity       | 10 kLx                                     |
| Insulation voltage endurance | 500 V                                      |
| Protection class             | IP 67                                      |
| Protection degree            | III, operation on protective low voltage   |

## OTVTI 51 M 150 P3K-IBS

### Diffuse Sensor



| TECHNICAL INFORMATION (typ.) |                                      |
|------------------------------|--------------------------------------|
| Casing material              | Die-cast zinc black lacquered finish |
| Material                     | polymethyl methacrylate (Window)     |
| Connection                   | Connector, M12, 3-poled              |

**+20°C, 24V DC**