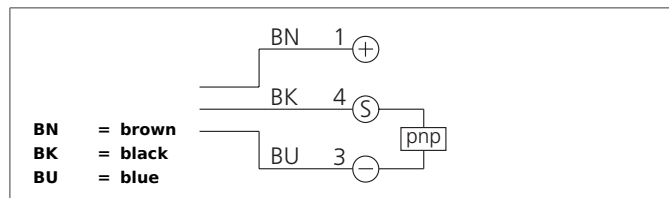


LRV 51 M 1000 P3K-IBS

Laser Retroreflective Sensor

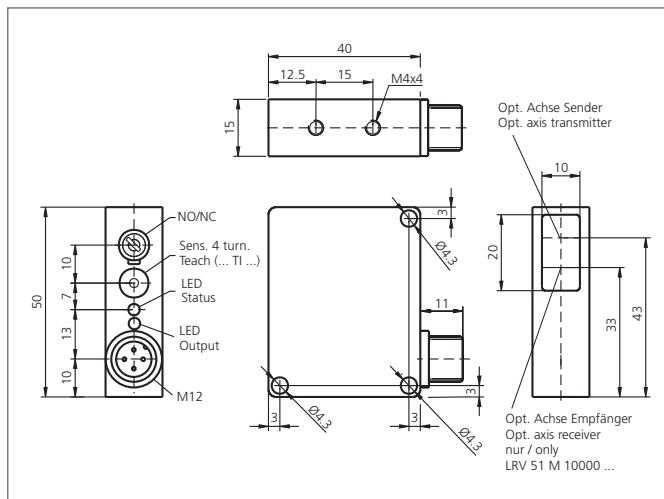


- Collimated red light laser
- Small laser spot and small reflector
- Polarized filter
- High operating frequency
- Robust metal casing
- 4-turn potentiometer
- Bright LED
- Light/dark switching
- Functional reserve indicator/contamination indicator



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.)	
Operating principle	Retroreflective sensor
Evaluation	digital
Size	50 x 40 x 15 mm (Dimensions)
Design	cuboid design
Emitted light	Red light laser, 650 nm, clocked
Laser class	1 (IEC 60825-1)
Operating distance	1000 mm
Service voltage	10 ... 35 V DC
No-load current	< 40 mA
Resolution	Ø 0,2 mm
Sensitivity adjustment	potentiometer
Referring reflector	RL 13 x 17 mm
Switching output	pnp, 200 mA, NO/NC, switchable
Switching hysteresis	200 µm
Shock-/vibration load	10 ... 55 Hz / 1,0 mm / 30 g
Voltage drop	< 2,8 V
Switching frequency	2000 Hz
Response-/release time	2,5 ms / 2,5 ms
Reproducibility	0,1 mm
Ambient temperature, operation	0 ... +50 °C
Ambient light immunity	5 kLux
Insulation voltage endurance	500 V
Protection class	IP 67

LRV 51 M 1000 P3K-IBS

Laser Retroreflective Sensor



TECHNICAL INFORMATION (typ.)		+20°C, 24V DC
Protection degree		III, operation on protective low voltage
Casing material		Die-cast zinc black lacquered finish
Material		polymethyl methacrylate (Window)
Connection		Connector, M12, 3-poled
Connecting cable		VK ...