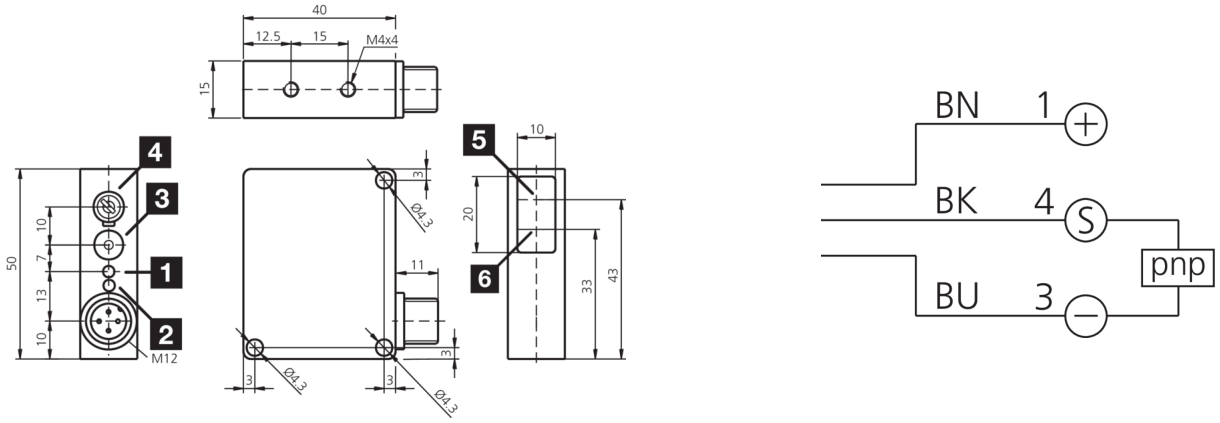
202508
LRV 51 M 10000 P3K-IBS
Laser retroreflective sensor

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



1) LED STATUS
2) LED OUTPUT
3) sensitivity
4) NO/ NC
6) Optical axis (R)

BK: black BN: brown BU: blue

Function

Technical data (typ.)	+20°C, 24 V DC
Electrical features	
Service voltage	10 … 35 V DC
No-load current (max.)	40 mA
Insulation voltage endurance	500 V
Mechanical features	
Housing dimensions	50 x 40 x 15 mm
Housing length	40 mm
Housing height	50 mm
Housing width	15 mm
Housing material	Die-cast zinc (Black, painted)
Material	PMMA (Window)
Certifications, approvals	
Protection class	III
General features	
Operating principle	Retroreflective sensor
Evaluation	digital
Design	Cuboid design

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Laser retroreflective sensor

Technical data (typ.)	+20°C, 24 V DC
Output, input, interface	
Switching output	pnp, 200 mA, NO/NC, switchable
Voltage drop (max.)	2.8 V
Optical data	
Light source	Laser
Laser class	CLASS 1 LASER PRODUCT, (IEC 60825-1:2014 / EN 60825-1:2014)
Color	Red
Wavelength	650 nm (Pp < 0.5 mW t = 1.6 µs)
Modulation	Clocked
Ambient light immunity	5 kLx
Detection range, measuring range, tolerance limits	
Range	10000 mm
Resolution	Ø 2.5 mm
Referring reflector	RL 42 x 35 mm (included)
Switching hysteresis (max.)	200 µm
Reproducibility	0.1 mm
Display, operation	
Sensitivity adjustment	Potentiometer
Time behavior	
Switching frequency	2000 Hz
Response time	2.5 ms
Release time	2.5 ms
Ambient conditions	
Ambient temperature during operation	0 … +50 °C
Protection type	IP 67
Electrical connection	
Connection	Connector, M12, 3-pin
Accessories	
Connection cable	VK …

More information / accessories	https://www.di-soric.com/202508

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