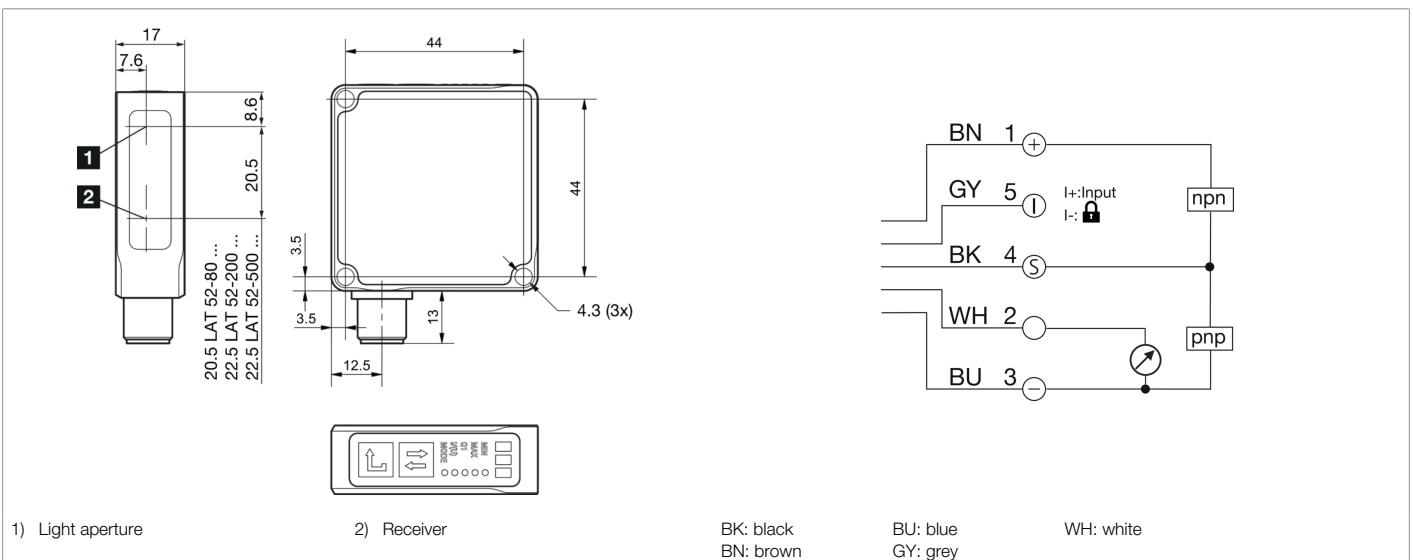




213057
LAT52-500IU-RB5
Laser distance sensors

- IO-Link
- Precisely linearized object detection
- Large detection range
- 3 operating modes as an IO-Link parameter
- Laser class 1
- Red-light laser, with small laser spot
- Easy to operate
- Robust metal housing



Function												

Technical data (typ.)	+20°C, 24 V DC
Service voltage	18 ... 30 V DC (Supply Class 2)
No-load current (max.)	60 mA
Insulation voltage endurance	500 V
Housing dimensions	51 x 51 x 17 mm
Housing material	Die-cast zinc (Black, powder-coated)
Material window / optics	Plastic
Weight	102 g
Protection class	III, operation on protective low voltage
Approvals	UL
Design	Cuboid design
Characteristics	Radial plug connection
Operation modes	Standard operating modes: General applications, Speed: Quick measurement (measuring rate 1,200 Hz), Power: For dark objects
Switching output	Push-pull (1x), 100 mA, NO/NC
Voltage drop (max.)	2 V
Analog output	0 ... 10 V, 4 ... 20 mA
Interface	<ul style="list-style-type: none"> ■ IO-Link V1.1, COM2 ■ Smart Sensor Profile
Light source	Laser



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Technical data (typ.)		+20°C, 24 V DC	
Laser class		CLASS 1 LASER PRODUCT, 1 (IEC 60825-1:2014 / EN 60825-1:2014)	
Color		Red	
Wavelength		650 nm (Pp < 0.65 mW t = 4 µs)	
Light spot size		Ø 1.0 mm	
Measuring range		50 ... 500 mm (6 to 90 % remission)	
Measuring range 1		50 ... 300 mm (6 to 90 % remission)	
Measuring range 2		300 ... 500 mm (6 to 90 % remission)	
Resolution		0.3 ... 0.50 mm (0.3 mm at 50 ... 300 mm, mode: standard, mean value 16, 0.5 mm at 300 ... 500 mm, mode: standard, mean value 16)	
Reproducibility		0.5 mm	
Reproducibility		0.5 mm at 50 ... 300 mm, mode: standard, mean value 16, 1.0 mm at 300 ... 500 mm, mode: standard, mean value 16	
Linearity error		0.22 % (± 1 mm at 50 ... 300 mm, mode: standard, mean value 16, ± 2 mm at 300 ... 500 mm, mode: standard, mean value 16)	
Sensitivity adjustment		Keypad	
Display		LED Green - Status, yellow - Switching output, Red - Signal weak	
Measuring frequency		500 Hz, (max. 1200 Hz in Speed sensor mode without filter)	
Readiness delay (max.)		300 ms	
Shock/vibration load		30 g, 10 ... 55 Hz / 0.5 mm	
Ambient temperature during operation		0 ... +50 °C	
Temperature drift		0.04 %/K	
Protection type		IP 67	
Connection		Connector, M12, 5-pin	
Connection cable		VK ... /5	
More information / accessories		https://www.di-soric.com/213057	