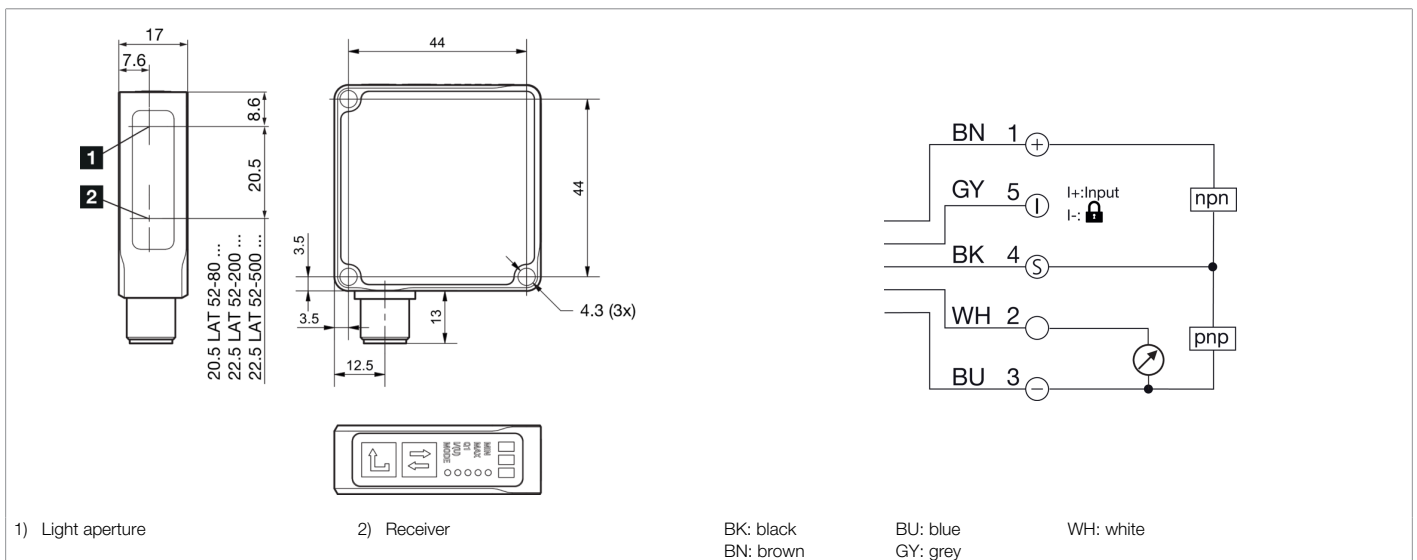




213055
LAT52-80IU-RB5
Laser distance sensors

- 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	1 (IEC 60825-1)
Color	red
Light spot size	Ø 0.5 mm
Measuring range	30 ... 80 mm (6 to 90 % remission)
Resolution	0.01 mm (Mode: Standard, median value 16)
Reproducibility	0.02 mm, Mode: Standard, median value 16
Linearity error	0.1 % (Mode: Standard, median value 16)
Sensitivity adjustment	Keypad
Display	LED Green - Status, yellow - Switching output, Red - Signal weak
Measuring frequency	1000 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/213055