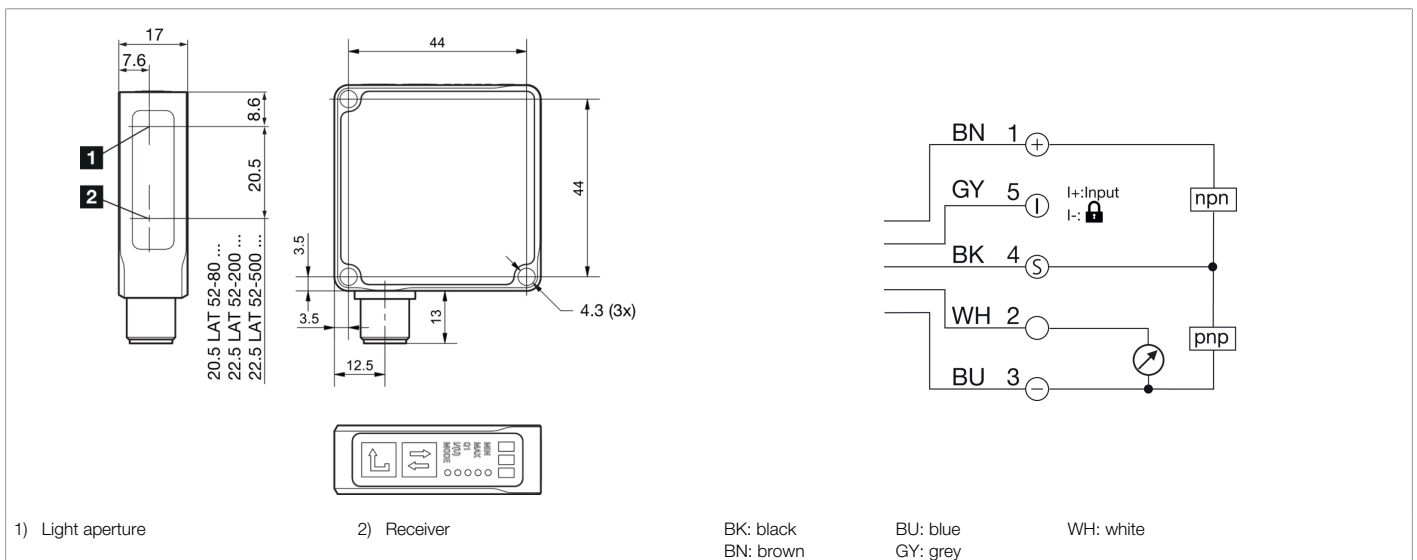




213055
LAT52-80IU-RB5
Laser distance sensors

- 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 |
| 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 |
| Laser class | | 1 (IEC 60825-1) |



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| Technical data (typ.) | +20°C, 24 V DC |
|---------------------------------------|--------------------------------------------------------------------------------------|
| 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 |