

FS/FE 18 RL

Through-beam laser sensor



CE

IP
67



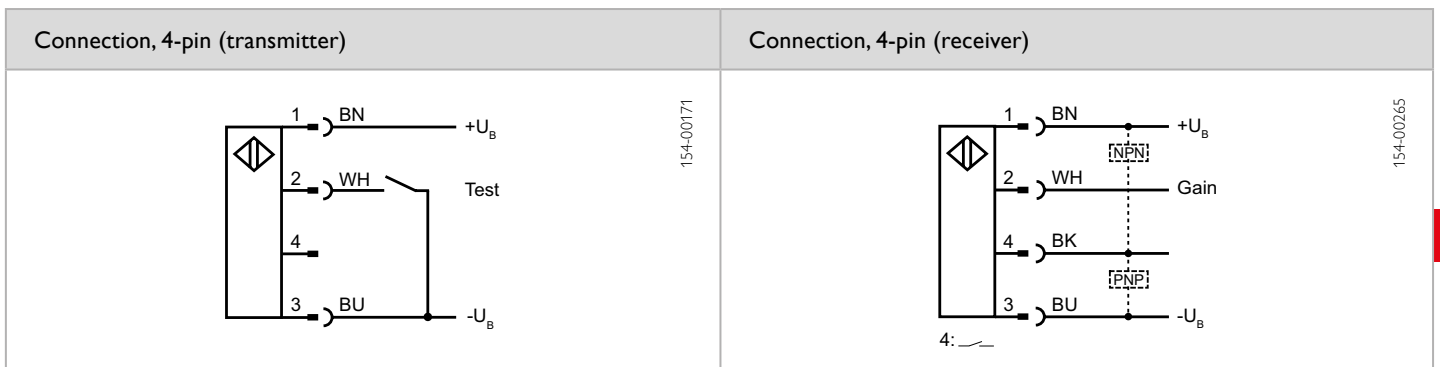
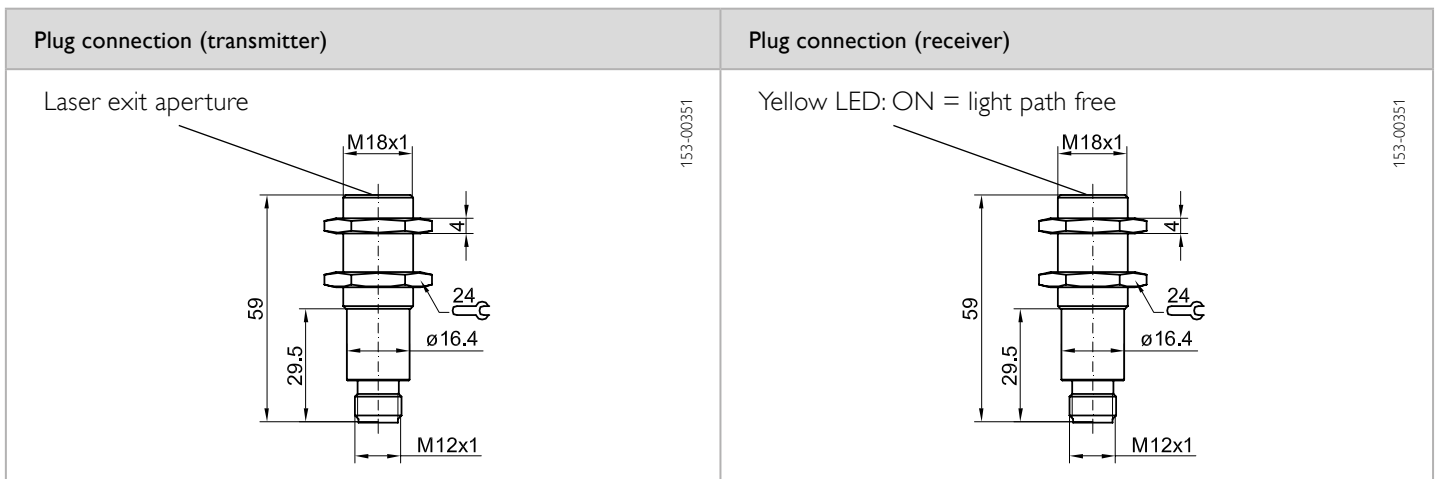
PRODUCT HIGHLIGHTS

- Operating range: 50 m
- Small housings
- Red light laser, 650 nm
- Control line for setting of 3 sensitivity levels
- Test input

| Optical data | | Functions | |
|------------------------------------|--|---------------------------------|----------------------------|
| Operating range | 0 ... 50 m | Indicator LED, yellow | Switching output indicator |
| Type of light | Laser, pulsed, red, 650 nm | Sensitivity adjustment | Via control line |
| Laser Class (IEC 60825-1) | 1 | | |
| Electrical data | | Mechanical data | |
| Operating voltage, +U _B | 10 ... 30V DC | Dimensions (plug device) | M18x1 x 59 mm |
| No-load current, I ₀ | ≤ 30 mA | Enclosure rating | IP 67 ² |
| Output current, I _e | ≤ 100 mA | Material, housing | Brass, nickel-plated |
| Protective circuits | Reverse-polarity protection, U _B / short-circuit protection (Q) | Type of connection | See selection table |
| Protection Class | 2 | Ambient temperature: operation | -20 ... +60 °C |
| Power On Delay | ≤ 300 ms | Ambient temperature: storage | -20 ... +80 °C |
| Switching output, Q | PNP/NPN (see selection table) | Weight (transmitter / receiver) | 70 g |
| Output function | N.O. | | |
| Switching frequency, f (ti/tp 1:1) | ≤ 10000 Hz | | |
| Response time | 50 μs | | |
| Control input, Test | Test input (transmitter) -U _B : transmitter = off +U _B or Open: transmitter = on | | |
| Control input, Gain | Open: medium sensitivity – medium distance ¹ -U _B : high sensitivity – high distance ¹ +U _B : low sensitivity – low distance | | |

¹ Change in Gain setting is only effective after renewed switch on / switch off ²With connected IP 67 plug

| Transmitter / receiver | Switching output | Type of connection | Part number | Article number |
|------------------------|------------------|--------------------|----------------|----------------|
| Receiver | PNP | Plug, M12x1, 4-pin | FE 18 RL-PS-L4 | 580-51400 |
| Receiver | NPN | Plug, M12x1, 4-pin | FE 18 RL-NS-L4 | 580-51399 |
| Transmitter | – | Plug, M12x1, 4-pin | FS 18 RL-L4 | 580-51398 |



| Accessories | |
|-------------------|----------------|
| Connection cables | From Page A-38 |
| Brackets | From Page A-4 |

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