



fibers
LL3, Fibers, through-beam system

LL3-TR02



Model Name > [LL3-TR02](#)
Part No. > [5308053](#)



At a glance

- Quick and easy mounting
- Models with hexagonal flange for trouble-free mounting with only one nut
- Optional tip adapter for a larger detection distance and small objects

Your benefits

- Very large selection of fiber-optic cables with plastic and glass fibers, giving users more application flexibility
- Resistant to damage caused by mechanical and chemical stress, as well as high temperatures
- Standard and customer-specific types
- Simple installation saves time
- For detection of objects, surfaces, leading edges, and fluid levels

Features

| | |
|--|--|
| For fiber-optic sensor: | WLL160(T), WLL170-2/WLL170T-2, WLL180T, WLL190T-2 |
| Device type: | Fibers |
| Housing length: | 2 m |
| Jacket material: | PE |
| Core material: | PMMA |
| Sleeve material: | Stainless steel ¹⁾ |
| Diameter, connection: | 1 mm |
| Mounting sleeve dimension: | M3 |
| Bend radius, fibre-optic cable: | 4 mm |
| Heat resistance: | 70 °C |
| Ambient operating temperature: | -40 °C ... 70 °C |
| Minimal object diameter: | 0.1 mm ²⁾ |
| Core structure: | 4 x Ø 0.25 mm |
| Fiber-optic cable cuttable ³⁾ : | ✓ |
| Thread sleeve: | ✓ |
| High flexible: | ✓ |
| Robotics: | ✓ |
| Special features: | Flexible fiber-optic cable, extra-small end sleeve |
| Category fiber-optic cables: | Flexible fiber-optic cable, Threaded sleeve |

¹⁾ Stainless steel ²⁾ Minimum detectable object was determined at optimal measuring distance and optimal setting ³⁾ FC fiber optic cable cutter included in delivery

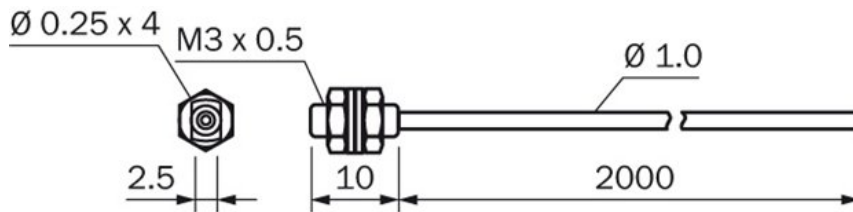
Sensing range with WLL180T

| | |
|-----------------------------|----------|
| Operating mode 16 μ s: | 60 mm |
| Operating mode 70 μ s: | 175 mm |
| Operating mode 250 μ s: | 330 mm |
| Operating mode 2 ms: | 750 mm |
| Operating mode 8 ms: | 1,100 mm |

Sensing range with WLL170-2

| | |
|-------------------------|--------|
| Redlight 250 μ s: | 115 mm |
| Greenlight 250 μ s: | 23 mm |
| Highspeed 50 μ s: | 38 mm |

Dimensional drawing



All dimensions in mm

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