


ONLINE DATA SHEET
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# fibers
# LL3, Fibers, proximity system

LL3-DR02



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**Model Name** > LL3-DR02
**Part No.** > 5308079





**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 |
| 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 temperature operation: | -40 °C ... 70 °C |
| Minimal object diameter: | 0.015 mm [2)] |
| Core structure: | S: 2 x Ø 0,25 mm, E: 2 x Ø 0,25 mm [3)] |
| Fiber-optic cable cuttable [4)]: | ✓ |
| Thread sleeve: | ✓ |
| Sleeve: | - |
| 90° offset: | - |
| Flat housing: | - |
| High flexible: | ✓ |
| Long end sleeve: | - |
| Array: | - |
| High temperature: | - |
| Oil/chemical resistent: | - |
| Lcd/clear material/semiconductor: | - |
| Vacuum: | - |


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| | |
|---|---|
| Robotics: | ✓ |
| Retro-reflective: | - |
| Liquid level: | - |
| Special features: | Flexible fiber-optic cable, no end sleeve |
| Category fiber-optic cables: | Flexible fiber-optic cable, Threaded sleeve |
| Fiber length: | 1,000 mm |

[1] Stainless steel [2] Minimum detectable object was determined at optimal measuring distance and optimal setting [3] C = Coaxial, S = Sender, E = Receiver [4] FC fiber optic cable cutter included in delivery

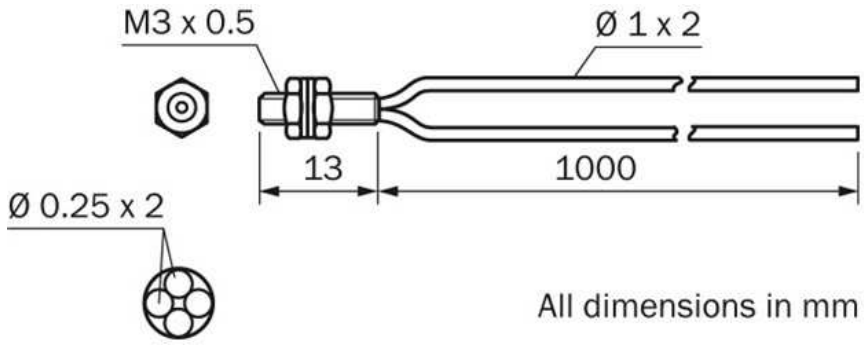
**Sensing range with WLL180T**

| | |
|---|---|
| Operating mode 16 µs: | 18 mm |
| Operating mode 70 µs: | 50 mm |
| Operating mode 250 µs: | 90 mm |
| Operating mode 2 ms: | 200 mm |
| Operating mode 8 ms: | 370 mm |

**Sensing range with WLL170-2**

| | |
|---|---|
| Redlight 250 µs: | 22 mm |
| Greenlight 250 µs: | 3 mm |
| Highspeed 50 µs: | 9 mm |

**Dimensional drawing**





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