



fibers  
LL3, Fibers, proximity system

LL3-DW01-5



**Model Name** > [LL3-DW01-5](#)  
**Part No.** > [5326221](#)



#### At a glance

- Heat-resistant plastic and glass fiber-optic cables
- Glass fiber-optic cable with metallic sheath
- Suitable for high-temperature applications up to +350°C

#### 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:                  | Stainless steel                                   |
| Core material:                    | Glass                                             |
| Sleeve material:                  | Stainless steel                                   |
| Diameter, connection:             | 4 mm                                              |
| Mounting sleeve dimension:        | M6                                                |
| Bend radius, fibre-optic cable:   | 25 mm                                             |
| Heat resistance:                  | 250 °C                                            |
| Ambient operating temperature:    | -40 °C ... 200 °C                                 |
| Minimal object diameter:          | 0.02 mm <sup>1)</sup>                             |
| Core structure:                   | Ø 1.6 (mixed 50 µm)                               |
| Fiber-optic cable cuttable:       | -                                                 |
| Thread sleeve:                    | ✓                                                 |
| Sleeve:                           | -                                                 |
| 90° offset:                       | -                                                 |
| Flat housing:                     | -                                                 |
| High flexible:                    | -                                                 |
| Long end sleeve:                  | -                                                 |
| Array:                            | -                                                 |
| High temperature:                 | -                                                 |
| Oil/chemical resistant:           | -                                                 |
| Lcd/clear material/semiconductor: | -                                                 |
| Vacuum:                           | -                                                 |

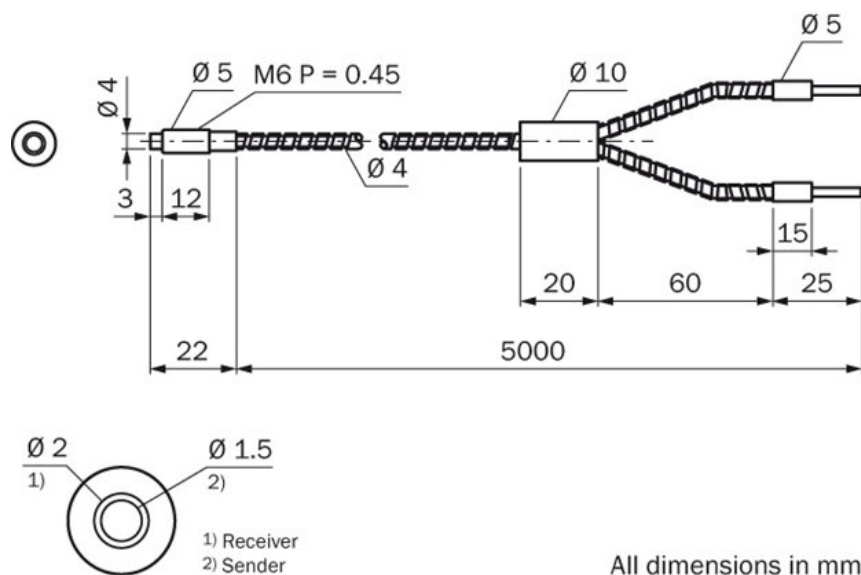
|                              |                                               |
|------------------------------|-----------------------------------------------|
| Robotics:                    | -                                             |
| Retro-reflective:            | -                                             |
| Liquid level:                | ✓                                             |
| Category fiber-optic cables: | Liquid level, Threaded sleeve, Heat-resistant |
| Fiber length:                | 5,000 mm                                      |

1) Minimum detectable object was determined at optimal measuring distance and optimal setting

### Sensing range with WLL180T

|                        |        |
|------------------------|--------|
| Operating mode 16 µs:  | 20 mm  |
| Operating mode 70 µs:  | 50 mm  |
| Operating mode 250 µs: | 95 mm  |
| Operating mode 2 ms:   | 150 mm |
| Operating mode 8 ms:   | 400 mm |

### Dimensional drawing



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