



## fibers LL3, Fibers, through-beam system

LL3-TE01



**Model Name** > [LL3-TE01](#)  
**Part No.** > [5325807](#)



#### At a glance

- Easy mounting
- Flush mounting in a single slot
- Background effects are minimized

#### 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:                           | PC                                                |
| Diameter, connection:                      | 1 mm                                              |
| Mounting sleeve dimension:                 | 7 x 10 x 2mm                                      |
| Bend radius, fibre-optic cable:            | 1 mm                                              |
| Heat resistance:                           | 60 °C                                             |
| Ambient operating temperature:             | -40 °C ... 60 °C                                  |
| Minimal object diameter:                   | 0.08 mm <sup>1)</sup>                             |
| Core structure:                            | 151 x 0.05 mm                                     |
| Fiber-optic cable cuttable <sup>2)</sup> : | ✓                                                 |
| 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: | Flat type, Flexible fiber-optic cable |
| Fiber length:                | 1,000 mm                              |

<sup>1)</sup> Minimum detectable object was determined at optimal measuring distance and optimal setting <sup>2)</sup> FC fiber optic cable cutter included in delivery

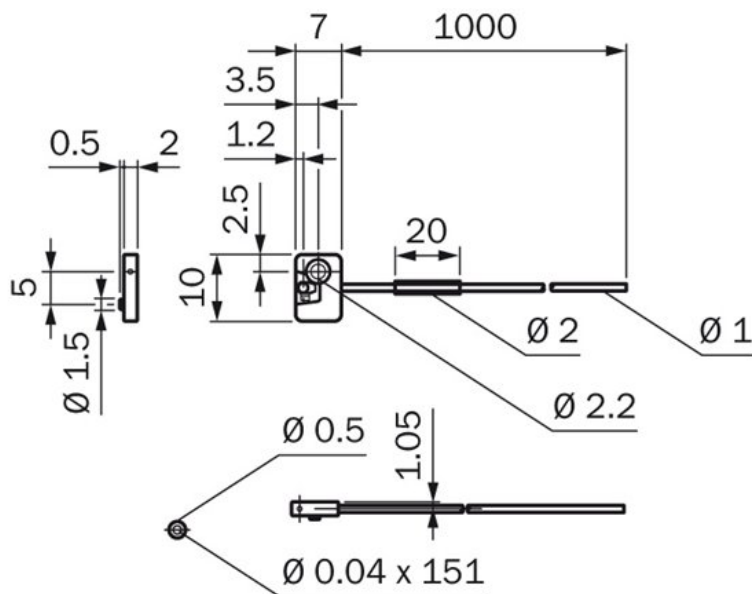
#### Sensing range with WLL180T

|                             |          |
|-----------------------------|----------|
| Operating mode 16 $\mu$ s:  | 120 mm   |
| Operating mode 70 $\mu$ s:  | 350 mm   |
| Operating mode 250 $\mu$ s: | 620 mm   |
| Operating mode 2 ms:        | 1,250 mm |
| Operating mode 8 ms:        | 1,330 mm |

#### Sensing range with WLL170-2

|                         |        |
|-------------------------|--------|
| Redlight 250 $\mu$ s:   | 250 mm |
| Greenlight 250 $\mu$ s: | 120 mm |
| Highspeed 50 $\mu$ s:   | 120 mm |

#### Dimensional drawing



All dimensions in mm

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