



fibers  
LL3, Fibers, proximity system

LL3-DH08



**Model Name** > [LL3-DH08](#)  
**Part No.** > [5326025](#)



#### 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:                    | WLL170-2/WLL170T-2, WLL180T, WLL190T-2          |
| Device type:                               | Fibers                                          |
| Jacket material:                           | PFA                                             |
| Core material:                             | Si                                              |
| Sleeve material:                           | Head: stainless steel, bracket: stainless steel |
| Diameter, connection:                      | 2.2 mm                                          |
| Mounting sleeve dimension:                 | 27 x 19 x 5 mm                                  |
| Bend radius, fibre-optic cable:            | 25 mm                                           |
| Heat resistance:                           | 180 °C                                          |
| Ambient operating temperature:             | -60 °C ... 180 °C                               |
| Minimal object diameter:                   | 0.02 mm <sup>1)</sup>                           |
| Core structure:                            | 2 x 1.5 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, LCDs/transparent objects/semiconductors |
| Fiber length:                | 2,000 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

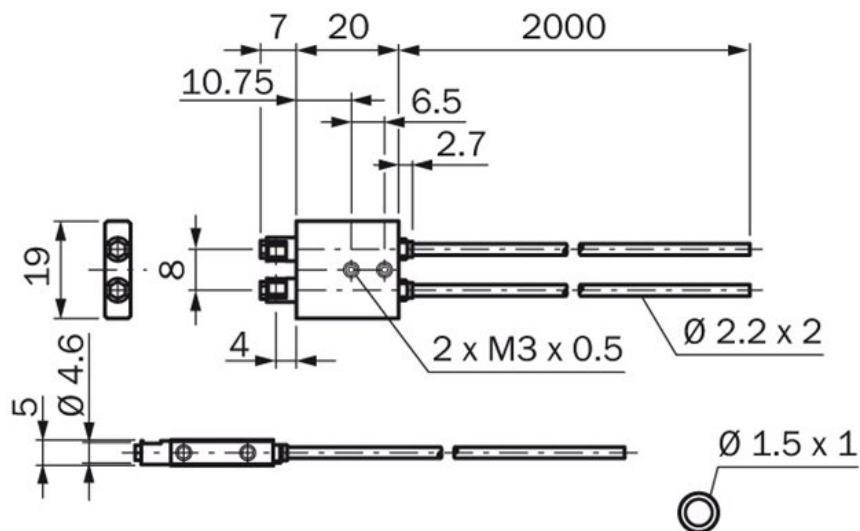
#### Sensing range with WLL180T

|                        |       |
|------------------------|-------|
| Operating mode 16 µs:  | 5 mm  |
| Operating mode 70 µs:  | 11 mm |
| Operating mode 250 µs: | 22 mm |
| Operating mode 2 ms:   | 30 mm |
| Operating mode 8 ms:   | 38 mm |

#### Sensing range with WLL170-2

|                    |         |
|--------------------|---------|
| Redlight 250 µs:   | 11 mm   |
| Greenlight 250 µs: | 9.3 mm  |
| Highspeed 50 µs:   | 15.5 mm |

#### Dimensional drawing



All dimensions in mm

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