



## fibers LL3, Fibers, through-beam system

LL3-TX03-01



**Model Name** > [LL3-TX03-01](#)  
**Part No.** > [5328257](#)



#### 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:                    | WLL170-2/WLL170T-2, WLL180T   |
| Device type:                               | Fibers                        |
| Jacket material:                           | Stainless steel               |
| Core material:                             | PMMA                          |
| Sleeve material:                           | Stainless steel <sup>1)</sup> |
| Diameter, connection:                      | 2.2 mm                        |
| Mounting sleeve dimension:                 | M12                           |
| Bend radius, fibre-optic cable:            | 30 mm                         |
| Heat resistance:                           | 60 °C                         |
| Ambient operating temperature:             | -40 °C ... 70 °C              |
| Minimal object diameter:                   | 0.5 mm <sup>2)</sup>          |
| Core structure:                            | Ø 1.5 mm                      |
| Fiber-optic cable cuttable <sup>3)</sup> : | ✓                             |
| Thread sleeve:                             | ✓                             |
| Sleeve:                                    | -                             |
| 90° offset:                                | -                             |
| Flat housing:                              | -                             |
| High flexible:                             | -                             |
| Long end sleeve:                           | -                             |
| Array:                                     | -                             |
| High temperature:                          | -                             |
| Oil/chemical resistant:                    | -                             |
| Lcd/clear material/semiconductor:          | -                             |
| Vacuum:                                    | -                             |

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

|                             |           |
|-----------------------------|-----------|
| Operating mode 16 $\mu$ s:  | 2,000 mm  |
| Operating mode 70 $\mu$ s:  | 7,500 mm  |
| Operating mode 250 $\mu$ s: | 13,500 mm |
| Operating mode 2 ms:        | 27,000 mm |
| Operating mode 8 ms:        | 40,000 mm |

|                         |          |
|-------------------------|----------|
| Redlight 250 $\mu$ s:   | 3,000 mm |
| Greenlight 250 $\mu$ s: | 1,200 mm |
| Highspeed 50 $\mu$ s:   | 1,300 mm |

[illegible]

**Australia**

Phone +61 3 9457 0600  
1800 33 48 02 – tollfree  
E-Mail sales@sick.com.au

**Belgium/Luxembourg**

Phone +32 (0)2 466 55 66  
E-Mail info@sick.be

**Brasil**

Phone +55 11 3215-4900  
E-Mail marketing@sick.com.br

**Canada**

Phone +1 905 771 14 44  
E-Mail information@sick.com

**Česká republika**

Phone +420 2 57 91 18 50  
E-Mail sick@sick.cz

**China**

Phone +86 4000 121 000  
E-Mail info.china@sick.net.cn  
Phone +852-2153 6300  
E-Mail ghk@sick.com.hk

**Danmark**

Phone +45 45 82 64 00  
E-Mail sick@sick.dk

**Deutschland**

Phone +49 211 5301-301  
E-Mail info@sick.de

**España**

Phone +34 93 480 31 00  
E-Mail info@sick.es

**France**

Phone +33 1 64 62 35 00  
E-Mail info@sick.fr

**Great Britain**

Phone +44 (0)1727 831121  
E-Mail info@sick.co.uk

**India**

Phone +91-22-4033 8333  
E-Mail info@sick-india.com

**Israel**

Phone +972-4-6881000  
E-Mail info@sick-sensors.com

**Italia**

Phone +39 02 27 43 41  
E-Mail info@sick.it

**Japan**

Phone +81 (0)3 5309 2112  
E-Mail support@sick.jp

**Magyarország**

Phone +36 1 371 2680  
E-Mail office@sick.hu

**Nederland**

Phone +31 (0)30 229 25 44  
E-Mail info@sick.nl

**Norge**

Phone +47 67 81 50 00  
E-Mail sick@sick.no

**Österreich**

Phone +43 (0)22 36 62 28 8-0  
E-Mail office@sick.at

**Polska**

Phone +48 22 837 40 50  
E-Mail info@sick.pl

**România**

Phone +40 356 171 120  
E-Mail office@sick.ro

**Russia**

Phone +7-495-775-05-30  
E-Mail info@sick.ru

**Schweiz**

Phone +41 41 619 29 39  
E-Mail contact@sick.ch

**Singapore**

Phone +65 6744 3732  
E-Mail sales.gsg@sick.com

**Slovenija**

Phone +386 (0)1-47 69 990  
E-Mail office@sick.si

**South Africa**

Phone +27 11 472 3733  
E-Mail info@sickautomation.co.za

**South Korea**

Phone +82 2 786 6321/4  
E-Mail info@sickkorea.net

**Suomi**

Phone +358-9-25 15 800  
E-Mail sick@sick.fi

**Sverige**

Phone +46 10 110 10 00  
E-Mail info@sick.se

**Taiwan**

Phone +886 2 2375-6288  
E-Mail sales@sick.com.tw

**Türkiye**

Phone +90 (216) 528 50 00  
E-Mail info@sick.com.tr

**United Arab Emirates**

Phone +971 (0) 4 88 65 878  
E-Mail info@sick.ae

**USA/México**

Phone +1(952) 941-6780  
1 (800) 325-7425 – tollfree  
E-Mail info@sickusa.com

More representatives and agencies  
at [www.sick.com](http://www.sick.com)