



fibers
LL3, Fibers, through-beam system

LL3-TR03-2



Model Name > [LL3-TR03-2](#)
Part No. > [5308055](#)



At a glance

- For installation at sites with limited space
- The smooth sleeve is simply secured by a setscrew

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 |
| Housing length: | 2 m |
| Jacket material: | PE |
| Core material: | PMMA |
| Sleeve material: | Stainless steel ¹⁾ |
| Diameter, connection: | 1 mm |
| Mounting sleeve dimension: | Ø 1.5 mm |
| Bend radius, fibre-optic cable: | 4 mm |
| Heat resistance: | 70 °C |
| Ambient operating temperature: | -40 °C ... 70 °C |
| Minimal object diameter: | 0.1 mm ²⁾ |
| Core structure: | 4 x Ø 0.25 mm |
| Fiber-optic cable cuttable ³⁾ : | ✓ |
| Sleeve: | ✓ |
| High flexible: | ✓ |
| Special features: | Flexible fiber-optic cable, extra-thin end sleeve |
| Category fiber-optic cables: | Flexible fiber-optic cable, Smooth sleeve |

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

Sensing range with WLL180T

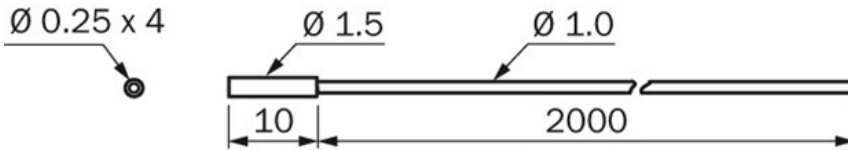
| | |
|------------------------|--------|
| Operating mode 16 µs: | 60 mm |
| Operating mode 70 µs: | 175 mm |
| Operating mode 250 µs: | 330 mm |

| | |
|----------------------|----------|
| Operating mode 2 ms: | 750 mm |
| Operating mode 8 ms: | 1,100 mm |

Sensing range with WLL170-2

| | |
|-------------------------|--------|
| Redlight 250 μ s: | 115 mm |
| Greenlight 250 μ s: | 23 mm |
| Highspeed 50 μ s: | 38 mm |

Dimensional drawing



All dimensions in mm

Australia

Phone +61 3 9457 0600
1800 334 802 – 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 sac@sick.com.br

Canada

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

Ceská 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 kundenservice@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 +972-4-6801000
E-Mail info@sick-sensors.com

Italia

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

Japan

Phone +81 (0)3 3358 1341
E-Mail support@sick.jp

Magyarország

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

Nederlands

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

Norge

Phone +47 67 81 50 00
E-Mail austefjord@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 admin@sicksgp.com.sg

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 8865 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