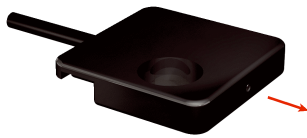


LL3-TE02

Fiber-optic cables

FIBERS

SICK
Sensor Intelligence.



Ordering information

| Type | Part no. |
|----------|----------|
| LL3-TE02 | 5325910 |

Other models and accessories → www.sick.com/Fiber-optic_cables

Detailed technical data

Features

| | |
|--|---|
| Device type | Fiber-optic cables |
| Functional principle | Through-beam system |
| Fiber-optic head design | Flat type |
| Application | High flexible (static) |
| Compatible fiber-optic amplifiers | WLL80, WLL180, GLL170(T) |
| Sensing range max. | 1,440 mm (Sensing range of WLL80 at 8 ms) |
| Minimal object diameter | 0.08 mm ¹⁾ |
| Optical fiber head | |
| Angle of dispersion | 60° |
| Integrated lens | No |
| Compatibility tip adapters | No |
| Optical fiber | |
| Compatibility with infrared light | No |
| Optical fiber cable can be shortened | ✓ |
| Adapter end sleeves required | Yes |
| Included with delivery | Mounting, 2 x M2 hexagon nut, 8 x washer, 4 x M2 Phillips-head screw, adapter sleeves, BF-WLL160-10 (1.0 mm) adapter sleeves, FC fiber cutter (5304141) |

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

Mechanics

| | | |
|--|------------------------------|--|
| Optical fiber head | | |
| Light emission | Axial | |
| Optical fiber | | |
| Fiber length | 1,000 mm | |
| Bending radius | 1 mm | |
| Dynamic flexibility (robotics) | No | |
| Outside diameter, optical fiber cable connection | 1 mm | |
| Fiber arrangement | Singlefiber | |
| Core structure | 151 x Ø 0,05 mm Singlefiber | |
| Material | | |
| Optical fiber head | Polycarbonat (PC) | |
| Sheath | Polyethylen (PE) | |
| Fibers | Polymethylmethacrylat (PMMA) | |

| | |
|---------------|------|
| Weight | 37 g |
|---------------|------|

Ambient data

| | |
|--------------------------------------|-------------------|
| Ambient operating temperature | -40 °C ... +60 °C |
|--------------------------------------|-------------------|

Classifications

| | |
|-----------------------|----------|
| ECLASS 5.0 | 27270905 |
| ECLASS 5.1.4 | 27270905 |
| ECLASS 6.0 | 27270905 |
| ECLASS 6.2 | 27270905 |
| ECLASS 7.0 | 27270905 |
| ECLASS 8.0 | 27270905 |
| ECLASS 8.1 | 27270905 |
| ECLASS 9.0 | 27270905 |
| ECLASS 10.0 | 27270905 |
| ECLASS 11.0 | 27270905 |
| ECLASS 12.0 | 27270905 |
| ETIM 5.0 | EC002651 |
| ETIM 6.0 | EC002651 |
| ETIM 7.0 | EC002651 |
| ETIM 8.0 | EC002651 |
| UNSPSC 16.0901 | 39121528 |

Sensing ranges with WLL80

| | |
|------------------------------|----------|
| Operating mode 16 µs | 115 mm |
| Operating mode 70 µs | 335 mm |
| Operating mode 250 µs | 515 mm |
| Operating mode 500 µs | 635 mm |
| Operating mode 1 ms | 725 mm |
| Operating mode 2 ms | 1,005 mm |
| Operating mode 8 ms | 1,440 mm |

Sensing ranges with WLL180T

| | |
|------------------------------|---|
| Operating mode 16 µs | 40 mm |
| Operating mode 70 µs | 140 mm |
| Operating mode 250 µs | 220 mm |
| Operating mode 2 ms | 450 mm |
| Operating mode 8 ms | 480 mm |
| Note | Sensing ranges related to fiber-optic sensors with type of light: visible red light |

Sensing ranges with GLL170

| | |
|------------------------------|--------|
| Operating mode 250 µs | 180 mm |
|------------------------------|--------|

Sensing ranges with GLL170T

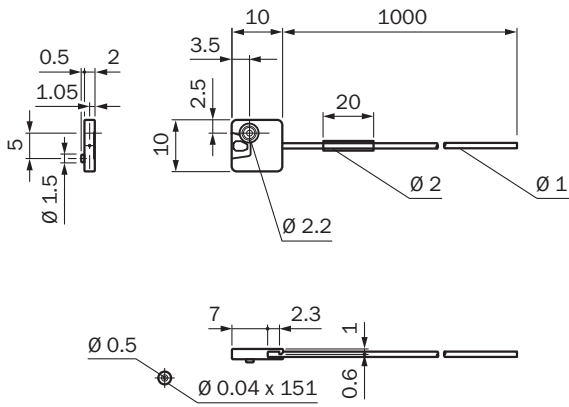
| | |
|-----------------------------|--------|
| Operating mode 50 µs | 140 mm |
|-----------------------------|--------|

Operating mode 250 μ s

190 mm

Dimensional drawing (Dimensions in mm (inch))

LL3-TE02



SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com