

LLSE-R1400111020C2

Fiber-optic cables

FIBER-OPTIC SENSORS

SICK
Sensor Intelligence.



Illustration may differ

Ordering information

| Type | part no. |
|--------------------|----------|
| LLSE-R1400111020C2 | 2115020 |

Included in delivery: LLAC-FC (1)

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

Detailed technical data

Features

| | |
|--------------------------------------|--|
| Device type | Fiber-optic cables |
| Functional principle | Through-beam system, consisting of a sender and a receiver |
| Fiber-optic head design | Threaded sleeve, 90° deflection |
| Application | Standard |
| Compatible fiber-optic amplifiers | GLL70, WLL80, WLL180, GLL170(T), WLL24 Ex |
| Sensing range max. | Depending on the fiber optic amplifier used |
| Optical fiber head | |
| Angle of dispersion | 60° |
| Integrated lens | No |
| Compatibility tip adapters | Yes |
| Optical fiber | |
| Compatibility with infrared light | No |
| Optical fiber cable can be shortened | ✓ |
| Adapter end sleeves required | No |
| Items supplied | 1 x fiber cutter (LLAC-FC), M4 mounting set (4 x M4 nut + 4 x M4 washer) |

Mechanics

| | |
|--|----------------------|
| Optical fiber head | |
| Light emission | Radial |
| Thread diameter (housing) | M4 |
| Optical fiber | |
| Fiber length | 2,000 mm |
| Bending radius | 2 mm |
| Dynamic flexibility (robotics) | No |
| Outside diameter, optical fiber cable connection | 2.2 mm |
| Fiber arrangement | Singlefiber |
| Core structure | Ø 1,0 mm Singlefiber |
| Material | |
| Optical fiber head | Stainless steel |
| Sheath | Polyethylen (PE) |
| Fibers | PMMA |
| Weight | 37 g |

Ambient data

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

Sensing ranges with WLL180T

| | |
|------------------------------|----------|
| Operating mode 16 µs | 140 mm |
| Operating mode 70 µs | 400 mm |
| Operating mode 250 µs | 600 mm |
| Operating mode 2 ms | 1,400 mm |
| Operating mode 8 ms | 2,000 mm |

Sensing ranges with GLL170

| | |
|------------------------------|--------|
| Operating mode 250 µs | 240 mm |
|------------------------------|--------|

Sensing ranges with GLL170T

| | |
|------------------------------|--------|
| Operating mode 50 µs | 300 mm |
| Operating mode 250 µs | 490 mm |

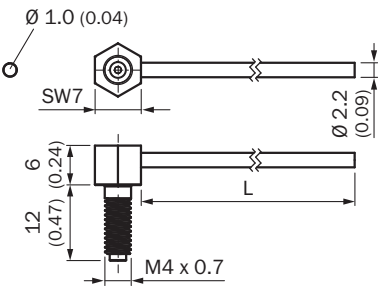
Certificates

| | |
|--------------------------------------|---|
| RoHS manufacturer declaration | ✓ |
|--------------------------------------|---|

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 |


Dimensional drawing



Dimensions in mm (inch)
For length of cable (L), see technical data

Recommended accessories

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

| | Brief description | Type | part no. |
|--|--|---------|----------|
| Mounting systems | | | |
|  | <ul style="list-style-type: none">• Description: Fiber cutting tool, in LLX scope of delivery• Items supplied: 1 pieces | LLAC-FC | 2119448 |

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