



LLSE-A2010111020B4

LLX

FIBERS

**SICK**  
Sensor Intelligence.



Illustration may differ

### Ordering information

| Type               | Part no. |
|--------------------|----------|
| LLSE-A2010111020B4 | 2115021  |

**Included in delivery:** LLAC-AB10 (2), LLAC-FC (1)

Other models and accessories → [www.sick.com/LLX](http://www.sick.com/LLX)

### Detailed technical data

#### Features

|   |   |
|---|---|
| <b>Device type</b>                      | Fibers  |
| <b>Functional principle</b>             | Through-beam system   |
| <b>Smooth sleeve diameter (housing)</b> | 1.5 mm  |
| <b>Fiber-optic cable cuttable</b>       | ✓   |
| <b>Adapter sleeves required</b>         | Yes (2 x LLAC-AB10)   |
| <b>Items supplied</b>                   | 1 x fiber cutter (LLAC-FC), 2 x fiber adapter bushing (LLAC-AB10) |

#### Mechanical data

|  |   |
|--|---|
| <b>Housing</b>                                 | Cylindrical smooth sleeve                     |
| <b>Design detail</b>                           | Axial   |
| <b>Connection detail</b>                       |   |
| Cable diameter                                 | 1 mm  |
| Length of cable (L)                            | 2 m   |
| Bending radius                                 | 15 mm   |
| <b>Material</b>                                |   |
| Housing  | Stainless steel, Stainless steel V2A (1.4301) |
| Cable  | Plastic<br>PE                                 |
| Fibers   | Plastic, PMMA                                 |
| <b>Fiber diameter (and quantity of fibers)</b> | 0,5 mm  |

#### Ambient data

|                                      |                   |
|--------------------------------------|-------------------|
| <b>Ambient operating temperature</b> | -40 °C ... +60 °C |
| <b>RoHS certificate</b>              | ✓                 |

#### Classifications

|                     |          |
|---------------------|----------|
| <b>ECLASS 5.0</b>   | 27270905 |
| <b>ECLASS 5.1.4</b> | 27270905 |
| <b>ECLASS 6.0</b>   | 27270905 |
| <b>ECLASS 6.2</b>   | 27270905 |
| <b>ECLASS 7.0</b>   | 27270905 |
| <b>ECLASS 8.0</b>   | 27270905 |
| <b>ECLASS 8.1</b>   | 27270905 |

|                       |          |
|-----------------------|----------|
| <b>ECLASS 9.0</b>     | 27270905 |
| <b>ECLASS 10.0</b>    | 27270905 |
| <b>ECLASS 11.0</b>    | 27270905 |
| <b>ECLASS 12.0</b>    | 27270905 |
| <b>ETIM 5.0</b>       | EC002651 |
| <b>ETIM 6.0</b>       | EC002651 |
| <b>ETIM 7.0</b>       | EC002651 |
| <b>ETIM 8.0</b>       | EC002651 |
| <b>UNSPSC 16.0901</b> | 39121528 |

## Sensing ranges with WLL180T

|   |        |
|---|--------|
| <b>Operating mode 16 <math>\mu</math>s</b>  | 70 mm  |
| <b>Operating mode 70 <math>\mu</math>s</b>  | 150 mm |
| <b>Operating mode 250 <math>\mu</math>s</b> | 250 mm |
| <b>Operating mode 2 ms</b>                  | 500 mm |
| <b>Operating mode 8 ms</b>                  | 650 mm |

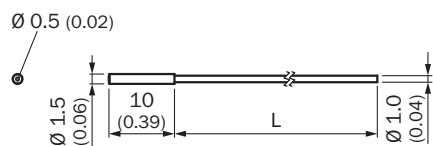
## Sensing ranges with GLL170

|   |       |
|---|-------|
| <b>Operating mode 250 <math>\mu</math>s</b> | 90 mm |
|---|-------|

## Sensing ranges with GLL170T

|   |        |
|---|--------|
| <b>Operating mode 50 <math>\mu</math>s</b>  | 140 mm |
| <b>Operating mode 250 <math>\mu</math>s</b> | 200 mm |


## Dimensional drawing (Dimensions in mm (inch))




For length of cable (L), see technical data

## Recommended accessories

Other models and accessories → [www.sick.com/LLX](http://www.sick.com/LLX)

|   | <b>Brief description</b>  | <b>Type</b> | <b>Part no.</b> |
|---|---|-------------|-----------------|
| <b>Other adapters</b>   |   |             |                 |
|  | Adapter sleeve for $\varnothing$ 1.0 mm LLX fibers for adaptation to $\varnothing$ 2.2 mm, in LLX scope of delivery | LLAC-AB10   | 2119446         |

|   | Brief description                            | Type    | Part no. |
|---|--|---------|----------|
|  | Fiber cutting tool, in LLX scope of delivery | 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](http://www.sick.com)