



# LL3-SH1004

LL3

FIBERS

**SICK**  
Sensor Intelligence.



Illustration may differ

### Ordering information

Type	Part no.
LL3-SH1004	5321463

Other models and accessories → [www.sick.com/LL3](http://www.sick.com/LL3)

### Detailed technical data

#### Features

<b>Device type</b>	Fibers
<b>Functional principle</b>	Through-beam system
<b>Functional principle detail</b>	Consisting of a sender and a receiver
<b>For fiber-optic sensor</b>	GLL170(T), WLL180, WLL80
<b>Sensing range max.</b>	Depends on the fiber-optic sensor used
<b>Fiber length</b>	100,000 mm
<b>Fiber material</b>	Polymethylmethacrylat (PMMA)
<b>Jacket material</b>	Polyethylen (PE)
<b>Outer diameter, fiber-optic cable connection</b>	1 mm
<b>Fiber-optic cable cuttable</b>	✓
<b>Fiber-optic head design</b>	Without
<b>Fiber arrangement</b>	Multi-fiber
<b>Core structure</b>	4 x Ø 0.25 mm Multi-fiber
<b>Angle of dispersion &lt; 60°</b>	No
<b>Compatibility with infrared light (1,450 nm)</b>	No
<b>Highly flexible/elastic fibers (bend radius 1–4 mm)</b>	Yes
<b>Adapter end sleeves required</b>	Yes
<b>Angle of dispersion</b>	60°
<b>Integrated lens</b>	No
<b>Included with delivery</b>	100 m fiber cable
<b>Compatibility tip adapters</b>	No

#### Mechanics/electronics

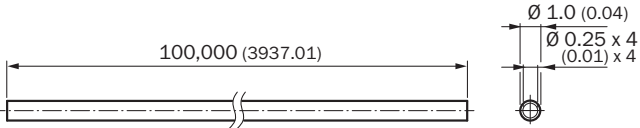
<b>Bend radius, fibre-optic cable</b>	4 mm
<b>Ambient operating temperature</b>	-55 °C ... +70 °C

#### 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

Dimensional drawing (Dimensions in mm (inch))



## 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)