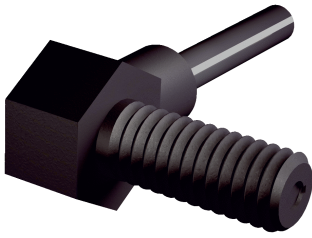


## LL3-TV06

Fiber-optic cables

FIBER-OPTIC SENSORS

**SICK**  
Sensor Intelligence.



### Ordering information

Type	part no.
LL3-TV06	5322547

Other models and accessories → [www.sick.com/Fiber-optic\\_cables](http://www.sick.com/Fiber-optic_cables)

### Detailed technical data

#### Features

<b>Device type</b>	Fiber-optic cables
<b>Functional principle</b>	Through-beam system, consisting of a sender and a receiver
<b>Fiber-optic head design</b>	Threaded sleeve, 90° deflection
<b>Application</b>	Heat-resistant (≥100 °C)
<b>Compatible fiber-optic amplifiers</b>	GLL70, WLL80, WLL180, GLL170(T), WLL24 Ex
<b>Sensing range max.</b>	3,180 mm (Sensing range of WLL80 at 8 ms)
<b>Minimal object diameter</b>	0.4 mm <sup>1)</sup>
<b>Optical fiber head</b>	
Angle of dispersion	19°
Integrated lens	Yes
Compatibility tip adapters	No
<b>Optical fiber</b>	
Compatibility with infrared light	No
Optical fiber cable can be shortened	✓
Adapter end sleeves required	No
<b>Included with delivery</b>	Mounting, 2 x M4 hexagon nut, FC fiber cutter (5304141)

<sup>1)</sup> Minimum detectable object was determined at optimum measuring distance and optimum setting.

#### Mechanics

<b>Optical fiber head</b>	
Light emission	Radial
Thread diameter (housing)	M4
<b>Optical fiber</b>	
Fiber length	2,000 mm
Bending radius	25 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	2.2 mm
<b>Material</b>	
Optical fiber head	Polyamid (PA)
Sheath	Polyethylen (PE)
Fibers	Polymethylmethacrylat (PMMA)

<b>Weight</b>	30 g
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## Ambient data

<b>Ambient operating temperature</b>	-40 °C ... +105 °C
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## Sensing ranges with GLL70

<b>Operating mode 50 µs</b>	600 mm
<b>Operating mode 250 µs</b>	1,685 mm
<b>Operating mode 1 ms</b>	2,185 mm
<b>Operating mode 4 ms</b>	3,600 mm

## Sensing ranges with WLL80

<b>Operating mode 16 µs</b>	245 mm
<b>Operating mode 70 µs</b>	750 mm
<b>Operating mode 250 µs</b>	1,150 mm
<b>Operating mode 500 µs</b>	1,385 mm
<b>Operating mode 1 ms</b>	1,560 mm
<b>Operating mode 2 ms</b>	2,200 mm
<b>Operating mode 8 ms</b>	3,180 mm
<b>Note</b>	Sensing ranges related to fiber-optic sensors with type of light: visible red light

## Sensing ranges with WLL180T

<b>Operating mode 16 µs</b>	180 mm
<b>Operating mode 70 µs</b>	550 mm
<b>Operating mode 250 µs</b>	900 mm
<b>Operating mode 2 ms</b>	2,100 mm
<b>Operating mode 8 ms</b>	3,500 mm
<b>Note</b>	Sensing ranges related to fiber-optic sensors with type of light: visible red light

## Sensing ranges with GLL170

<b>Operating mode 250 µs</b>	560 mm
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## Sensing ranges with GLL170T

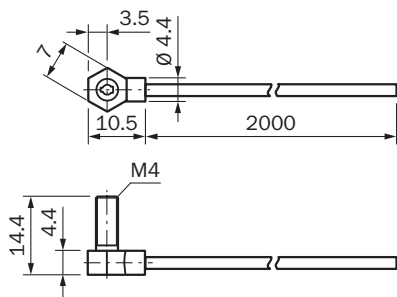
<b>Operating mode 50 µs</b>	460 mm
<b>Operating mode 250 µs</b>	680 mm

## 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 LL3-TV05, LL3-TV06, LL3-TV07



Dimensions in mm (inch)

SpareCruX

## 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)

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