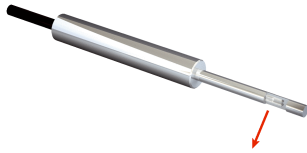


LL3-TH06

Fiber-optic cables

FIBERS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
LL3-TH06	5325926

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	Smooth sleeve, Long end sleeve, 90° deflection
Application	Standard
Compatible fiber-optic amplifiers	WLL80, WLL180, GLL170(T)
Sensing range max.	180 mm (Sensing range of WLL80 at 8 ms)
Minimal object diameter	1 mm ¹⁾
Optical fiber head	
Compatibility tip adapters	No
Optical fiber	
Optical fiber cable can be shortened	✓
Adapter end sleeves required	Yes

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

Mechanics

Optical fiber head	
Light emission	Radial
Smooth sleeve diameter	2.5 mm
Optical fiber taper diameter	≥ 1 mm
Optical fiber taper length after 2 mm	≥ 25 mm
Optical fiber	
Fiber length	1,000 mm
Bending radius	10 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	1 mm
Material	
Sheath	Polycarbonat (PC)
Weight	12 g

Ambient data

Ambient operating temperature	-40 °C ... +105 °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	10 mm
Operating mode 70 μs	40 mm
Operating mode 250 μs	60 mm
Operating mode 500 μs	75 mm
Operating mode 1 ms	85 mm
Operating mode 2 ms	120 mm
Operating mode 8 ms	180 mm

Sensing ranges with WLL180T

Operating mode 16 μs	6 mm
Operating mode 70 μs	19 mm
Operating mode 250 μs	38 mm
Operating mode 2 ms	74 mm
Operating mode 8 ms	130 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light

Sensing ranges with GLL170

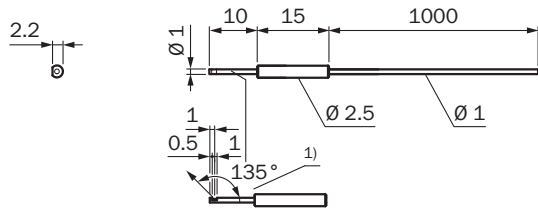
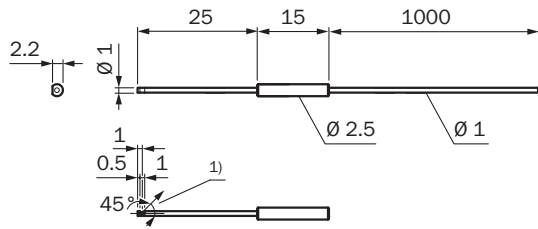
Operating mode 250 μs	20 mm
---	-------

Sensing ranges with GLL170T

Operating mode 50 μs	10 mm
Operating mode 250 μs	20 mm

Dimensional drawing (Dimensions in mm (inch))

LL3-TH06



1) angle of beam

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