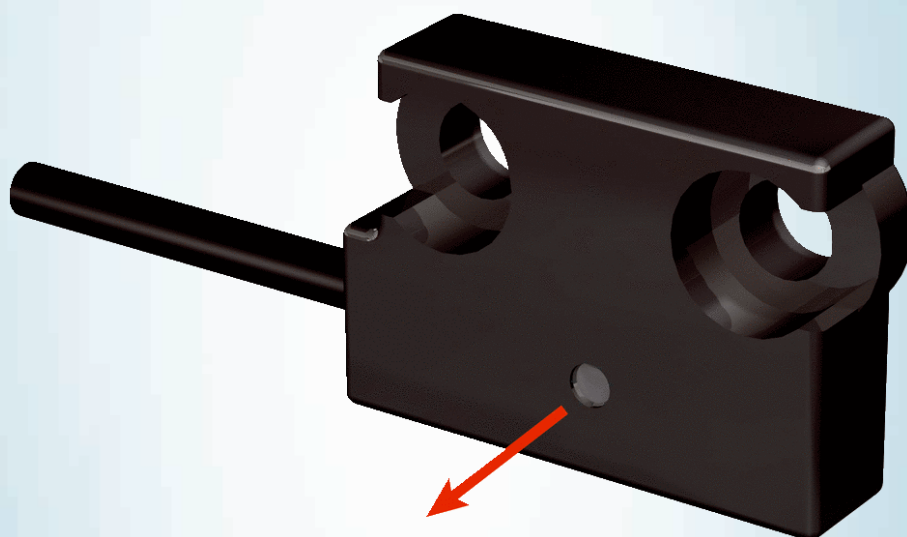


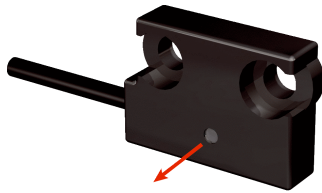


LL3-TE05

Fiber-optic cables

FIBER-OPTIC SENSORS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
LL3-TE05	5325914

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	Flat type, 90° deflection
Application	High flexible (static)
Compatible fiber-optic amplifiers	GLL70, WLL80, WLL180, GLL170(T)
Sensing range max.	3,600 mm (Sensing range of WLL80 at 8 ms)
Minimal object diameter	0.03 mm ¹⁾
Optical fiber head	
Angle of dispersion	43°
Integrated lens	Yes
Compatibility tip adapters	No
Optical fiber	
Compatibility with infrared light	No
Optical fiber cable can be shortened	✓
Adapter end sleeves required	Yes
Included with delivery	Mounting, 2 x M2 hexagon nut, 8 x washer, 4 x M2 Phillips-head screw, adapter sleeves, BF-WLL160-13 (1.3 mm) adapter sleeves, FC fiber cutter (5304141)

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

Mechanics

Optical fiber head		
Light emission	Radial	
Optical fiber		
Fiber length	2,000 mm	
Bending radius	4 mm	
Dynamic flexibility (robotics)	No	
Outside diameter, optical fiber cable connection	1.3 mm	
Fiber arrangement	Multi-fiber	
Core structure	7 x Ø 0,25 mm Multi-fiber	
Material		
Optical fiber head	Polycarbonate (PC)	
Sheath	Polyethylen (PE)	
Fibers	Polymethylmethacrylat (PMMA)	

Weight	40 g
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Ambient data

Ambient operating temperature	-40 °C ... +60 °C
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Sensing ranges with WLL80

Operating mode 16 µs	360 mm
Operating mode 70 µs	1,080 mm
Operating mode 250 µs	1,675 mm
Operating mode 500 µs	2,050 mm
Operating mode 1 ms	2,310 mm
Operating mode 2 ms	3,205 mm
Operating mode 8 ms	3,600 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light

Sensing ranges with WLL180T

Operating mode 16 µs	150 mm
Operating mode 70 µs	460 mm
Operating mode 250 µs	840 mm
Operating mode 2 ms	1,680 mm
Operating mode 8 ms	1,780 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light

Sensing ranges with GLL170

Operating mode 250 µs	570 mm
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Sensing ranges with GLL170T

Operating mode 50 µs	450 mm
Operating mode 250 µs	720 mm

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

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