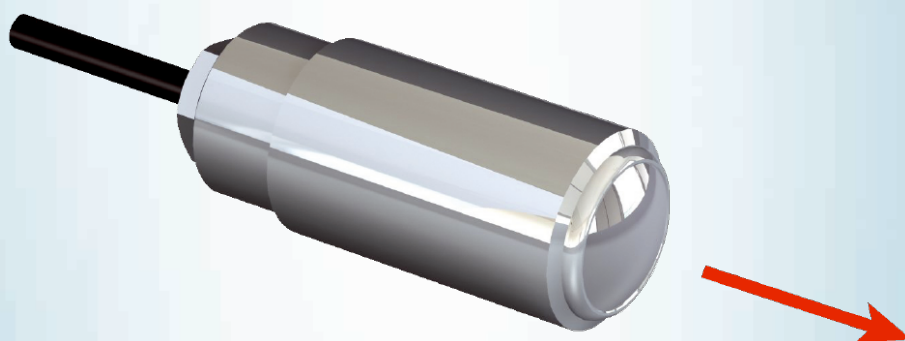


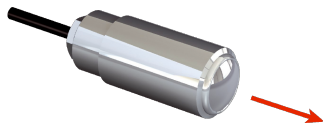


LL3-TX03-01

Fiber-optic cables

FIBER-OPTIC SENSORS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
LL3-TX03-01	5328257

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	Threaded sleeve
Application	Standard
Special features	Bracket material, fiber head and mounting material made of stainless steel V4A (1.4404, 316L)
Compatible fiber-optic amplifiers	GLL70, WLL80, WLL180, GLL170(T)
Sensing range max.	Depending on the fiber optic amplifier used
Minimal object diameter	0.5 mm ¹⁾
Optical fiber head	
Angle of dispersion	12°
Integrated lens	Yes
Compatibility tip adapters	No
Optical fiber	
Compatibility with infrared light	No
Adapter end sleeves required	No
Included with delivery	Mounting, 4 x M12 hexagon nut, FC fiber cutter (5304141), protective cladding for fiber head

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

Mechanics

Optical fiber head	
Light emission	Axial
Thread diameter (housing)	M12
Optical fiber	
Fiber length	1,000 mm
Bending radius	30 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	2.2 mm
Fiber arrangement	Singlefiber
Core structure	Ø 1.5 mm Singlefiber
Material	

¹⁾ Glass.

Optical fiber head	Stainless steel ¹⁾
Sheath	Stainless steel
Fibers	Polymethylmethacrylat (PMMA)
Weight	24 g

¹⁾ Glass.

Ambient data

Ambient operating temperature	-40 °C ... +70 °C
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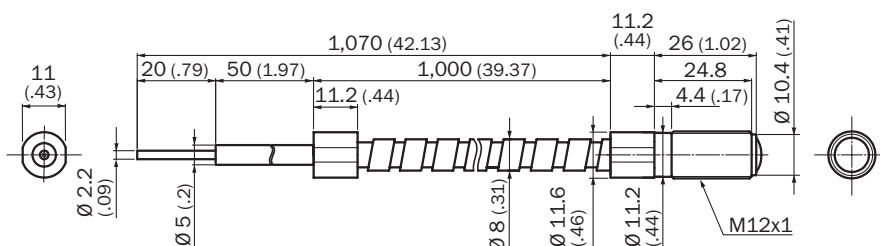
Sensing ranges with WLL180T

Operating mode 16 µs	2,000 mm
Operating mode 70 µs	2,000 mm
Operating mode 250 µs	2,000 mm
Operating mode 2 ms	2,000 mm
Operating mode 8 ms	2,000 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light

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

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