

LL3-DT01S03

Fiber-optic cables

FIBERS





Ordering information

Туре	Part no.
LL3-DT01S03	5342827

Other models and accessories → www.sick.com/Fiber-optic_cables

Detailed technical data

Features

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Device type	Fiber-optic cables
Functional principle	Proximity system
Fiber-optic head design	Threaded sleeve
Application	Standard
Special features	4,950 mm heat-shrink tubing
Compatible fiber-optic amplifiers	WLL80, WLL180, GLL170(T)
Sensing range max.	Depending on the fiber optic amplifier used
Minimal object diameter	0.015 mm ¹⁾
Optical fiber head	
Angle of dispersion	60°
Integrated lens	No
Compatibility tip adapters	Yes
Optical fiber	
Compatibility with infrared light	No
Optical fiber cable can be shortened	✓
Adapter end sleeves required	Yes
Included with delivery	Mounting, 2 x M3 hexagon nut, 2 x washer, 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	Axial
Thread diameter (housing)	M3
Optical fiber	
Fiber length	5,000 mm
Bending radius	15 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	1.3 mm
Fiber arrangement	Coaxial
Core structure	S: Ø 0,5 mm, R: 9 x Ø 0,25 mm ¹⁾ Coaxial
Material	

 $^{^{1)}}$ C = Coaxial, S = Sender, E = Receiver.

Optical fiber head	Stainless steel
Sheath	Polyethylen (PE)
Fibers	Polymethylmethacrylat (PMMA)
Weight	41 g

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Ambient data

Ambient operating temperature	-40 °C +70 °C
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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 WLL180T

Operating mode 16 μs	30 mm
Operating mode 70 μs	100 mm
Operating mode 250 µs	150 mm
Operating mode 2 ms	300 mm
Operating mode 8 ms	500 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light

Sensing ranges with GLL170

Operating mode 250 µs	60 mm
Operating mode 250 µs	oo miii

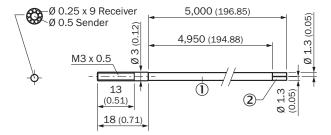
Sensing ranges with GLL170T

Operating mode 50 µs	50 mm
Operating mode 250 µs	90 mm

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Dimensional drawing (Dimensions in mm (inch))



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