

LL3-TG02

Fiber-optic cables

FIBERS





Ordering information

Туре	Part no.
LL3-TG02	5325943

Included in delivery: FC (1)

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	90° deflection
Application	Lcd / clear material / semiconductor, high flexible (static)
Special features	Small 2° aperture angle
Compatible fiber-optic amplifiers	WLL80, WLL180, GLL170(T), WLL24 Ex
Sensing range max.	3,600 mm (Sensing range of WLL80 at 8 ms)
Minimal object diameter	0.06 mm ¹⁾
Optical fiber head	
Angle of dispersion	2.29°
Integrated lens	Yes
Compatibility tip adapters	No
Optical fiber	
Compatibility with infrared light	No
Optical fiber cable can be shortened	✓
Adapter end sleeves required	No
Included with delivery	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	1 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	2.2 mm
Fiber arrangement	Multi-fiber
Core structure	151 x Ø 0,075 mm Multi-fiber
Material	
Optical fiber head	Plastic
Sheath	Polyethylen (PE)

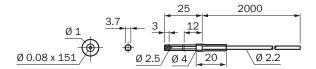
Operating mode 250 μs 1,730 mm		ers Polymethylmethacrylat (PMMA)	
Ambient operating temperature -40 °C +55 °C Classifications 27270905 ECLASS 5.0 27270905 ECLASS 5.1.4 27270905 ECLASS 6.0 27270905 ECLASS 6.2 27270905 ECLASS 7.0 27270905 ECLASS 8.0 27270905 ECLASS 8.1 27270905 ECLASS 8.1 27270905 ECLASS 8.1 27270905 ECLASS 9.0 27270905 ECLASS 1.0 27270905 ETIM 5.0 E0002661 ETIM 6.0 E0002661 ETIM 7.0 E0002661 ETIM 8.0 E0002661 ETIM 8.0 E0002661 ETIM 9.0 E0002661	Weight	50 g	
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	Operating mode 250 μs	1,730 mm	
Operating mode 50 μs 1,650 mm	Sensing ranges with GLL170T		
	Operating mode 50 μs	1,650 mm	

Operating mode 250 µs

2,060 mm

Dimensional drawing (Dimensions in mm (inch))

LL3-TG02



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