

LL3-TS08

Fiber-optic cables

FIBERS





Ordering information

Туре	Part no.
LL3-TS08	5308061

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	Smooth sleeve, 90° deflection
Application	Standard
Compatible fiber-optic amplifiers	WLL80, WLL180, GLL170(T), WLL24 Ex
Sensing range max.	2,640 mm (Sensing range of WLL80 at 8 ms)
Minimal object diameter	0.2 mm ¹⁾
Optical fiber head	
Angle of dispersion	60°
Integrated lens	No
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
Smooth sleeve diameter	3 mm
Optical fiber	
Fiber length	2,000 mm
Bending radius	25 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	2.2 mm
Fiber arrangement	Singlefiber
Core structure	Ø 1,0 mm Singlefiber
Material	
Optical fiber head	Stainless steel
Sheath	Polyethylen (PE)

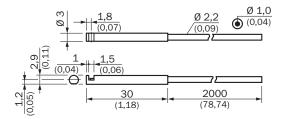
Weight 29 g Ambient data Ambient operating temperature -40 ° C +70 ° C Classifications EcLASS 5.0 27270905 ECLASS 6.0 27270905 ECLASS 6.2 27270905 ECLASS 7.0 27270905 ECLASS 8.1 27270905 ECLASS 8.1 27270905 ECLASS 10.0 27270905 ECLASS 11.0 27270905 ECLASS 12.0 27270905 ETIM 5.0 E0002651 ETIM 6.0 E0002651 ETIM 7.0 E0002651 ETIM 8.0 E0002651 UNSPSC 16.0901 39121528 Sensing ranges with WLL80 Operating mode 26 μs Operating mode 70 μs 950 mm Operating mode 250 μs 1,500 mm Operating mode 2 ms 2,640 mm Sensing ranges with WLL180T Operating mode 2 ms Operating mode 2 ms 2,300 mm Operating mode 2 ms 2,300 mm Operating mode 2 ms 2,300 mm Operating mode 8 ms 3	Polymethylmethacrylat (PMMA)	Fibers
Ambient operating temperature	29 g	Weight
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Operating mode 2 ms2,300 mmOperating mode 8 ms3,000 mm	500 mm	Operating mode 70 μs
Operating mode 8 ms 3,000 mm	1,000 mm	Operating mode 250 µs
	2,300 mm	Operating mode 2 ms
Note Sensing ranges related to fiber-optic sensors with type of light: visible red light	3,000 mm	Operating mode 8 ms
	Sensing ranges related to fiber-optic sensors with type of light: visible red light	Note
Sensing ranges with GLL170		Sensing ranges with GLL170
Operating mode 250 μs 410 mm	410 mm	Operating mode 250 μs
Sensing ranges with GLL170T		Sensing ranges with GLL170T
Operating mode 50 μs 410 mm	410 mm	

Operating mode 250 µs

710 mm

Dimensional drawing (Dimensions in mm (inch))

LL3-TS08



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