

LL3-TW012000S03 Fiber-optic cables

SICK Sensor Intelligence.

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LL3-TW012000S03 | Fiber-optic cables

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Ordering information

Туре	Part no.
LL3-TW012000S03	5337904

The scope of delivery includes only one optical fiber. Two are required for operation, however. 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 Threaded sleeve Heat-resistant (≥100 °C) Application WLL80, WLL180, GLL170(T) **Compatible fiber-optic amplifiers** Depending on the fiber optic amplifier used Sensing range max. **Minimal object diameter** 0.4 mm¹⁾ **Optical fiber head** Angle of dispersion 60° Integrated lens No Compatibility tip adapters Yes

Optical fiber Compatibility with infrared light Adapter end sleeves required Included with delivery Mounting, 4 x M4 hexagon nut, 2 x washer

 $^{1)}$ Minimum detectable object was determined at optimum measuring distance and optimum setting.

 $^{2)}\,\mathrm{Reduced}$ sensing ranges possible when using a fiber-optic amplifier with infrared light.

Mechanics

Optical fiber head	
Light emission	Axial
Thread diameter (housing)	M4
Optical fiber taper diameter	≥ 2.6 mm
Optical fiber taper length after 2 mm	≥ 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	Multi-fiber
Core structure	Ø 1.5 mm (multi-fiber) Multi-fiber
Material	

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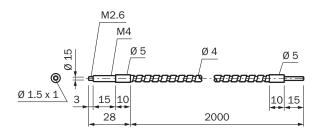
Optical fiber head		
	Stainless steel	
Fibers		
Weight	68 g	
Ambient data		
Ambient operating temperature	-60 °C +210 °C	
Classifications		
ECLASS 5.0	27270905	
ECLASS 5.1.4	27270905	
ECLASS 6.0	27270905	
ECLASS 6.2	27270905	
ECLASS 7.0	27270905	
ECLASS 8.0	27270905	
ECLASS 8.1	27270905	
ECLASS 9.0	27270905	
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	80 mm	
Operating mode 70 µs	230 mm	
Operating mode 250 µs	350 mm	
Operating mode 2 ms	560 mm	
Operating mode 8 ms	980 mm	
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light	
Sensing ranges with GLL170		
Operating mode 250 µs	534 mm	

Sensing ranges with GLL170T	
Operating mode 50 µs	821 mm
Operating mode 250 µs	1,393 mm

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Dimensional drawing (Dimensions in mm (inch))

LL3-TW01-2



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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



Online data sheet

