

LL3-DT01S03 Fiber-optic cables

SICK Sensor Intelligence.

FIBERS

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

Adapter end sleeves required	Yes
Optical fiber cable can be shortened	\checkmark
Compatibility with infrared light	No
Optical fiber	
Compatibility tip adapters	Yes
Integrated lens	No
Angle of dispersion	60°
Optical fiber head	
Minimal object diameter	0.015 mm ¹⁾
Sensing range max.	Depending on the fiber optic amplifier used
Compatible fiber-optic amplifiers	WLL80, WLL180, GLL170(T)
Special features	4,950 mm heat-shrink tubing
Application	Standard
Fiber-optic head design	Threaded sleeve
Functional principle	Proximity system
Device type	Fiber-optic cables

 $^{1)}\ensuremath{\,\text{Minimum}}$ 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.

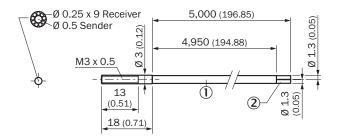
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Optical fiber head				
Sheath	Polyethylen (PE)			
	Polymethylmethacrylat (PMMA)			
Weight	41 g			
¹⁾ C = Coaxial, S = Sender, E = Receiver.				
Ambient data				
Ambient operating temperature	-40 °C +70 °C			
Classifications				
ECLASS 5.0	27270905			
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	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			
Sensing ranges with GLL170T				
Operating mode 50 µs	50 mm			
Operating mode 250 µs	90 mm			

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



Online data sheet

