



SICK Sensor Intelligence.

**FIBERS** 

#### LL3-DM03-3 | Fiber-optic cables

**FIBERS** 



Ordering information

	Туре	Part no.
*	LL3-DM03-3	5326721

Other models and accessories -> www.sick.com/Fiber-optic\_cables

#### Detailed technical data

Features

Device type	Fiber-optic cables
Functional principle	Proximity system
Fiber-optic head design	Threaded sleeve, Long end sleeve, Bendable sleeve
Application	Standard
Compatible fiber-optic amplifiers	WLL80, WLL180, GLL170(T)
Sensing range max.	Depending on the fiber optic amplifier used
Minimal object diameter	0.015 mm <sup>1)</sup>
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	1
Adapter end sleeves required	Yes
Included with delivery	Mounting, 2 x M4 hexagon nut, 2 x washer, adapter sleeves, BF-WLL160-10 (1.0 mm) adapter sleeves, FC fiber cutter (5304141)

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

#### Mechanics

Optical fiber head	
Light emission	Axial
Thread diameter (housing)	M4
Optical fiber taper diameter	≥ 1.5 mm
Optical fiber taper length after 2 mm	≥ 90 mm
Optical fiber	
Fiber length	2,000 mm
Bending radius	15 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	1 mm
Fiber arrangement	Singlefiber
Core structure	2 x Ø 0,5 mm <sup>1)</sup> Singlefiber

<sup>1)</sup> C = Coaxial, S = Sender, E = Receiver.

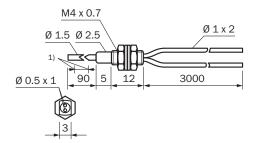
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Material				
Optical fiber head	Stainless steel			
Sheath	Polyethylen (PE)			
Fibers	Polymethylmethacrylat (PMMA)			
Weight	22 g			
<sup>1)</sup> C = Coaxial, S = Sender, E = Receiver.				
Ambient data				
Ambient operating temperature	-40 °C +70 °C			
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	10 mm			
Operating mode 70 µs	25 mm			
Operating mode 250 µs	45 mm			

Operating mode 70 µs	25 mm
Operating mode 250 µs	45 mm
Operating mode 2 ms	90 mm
Operating mode 8 ms	170 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light

Dimensional drawing (Dimensions in mm (inch))



 Flexible end tip, do not bend in this area (10 mm), bend radius R10 mm

# 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

