

# LL3-DH01-03

Fiber-optic cables

**FIBER-OPTIC SENSORS** 





#### Ordering information

Туре	part no.
LL3-DH01-03	5321260

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

#### Detailed technical data

#### **Features**

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Device type	Fiber-optic cables
Functional principle	Proximity system
Fiber-optic head design	Threaded sleeve
Application	Heat-resistant (≥100°C)
Compatible fiber-optic amplifiers	GLL70, 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	
Adapter end sleeves required	No
Included with delivery	Mounting, 2 x M6 hexagon nut, 2 x washer, FC fiber cutter (5304141)

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

#### Mechanics

Optical fiber head	
Light emission	Axial
Thread diameter (housing)	M6
Optical fiber taper diameter	≥ 4.9 mm
Optical fiber taper length after 2 mm	≥ 3 mm
Optical fiber	
Fiber length	3,000 mm
Bending radius	35 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	2.2 mm
Fiber arrangement	Singlefiber
Core structure	2 x Ø 1,5 mm Singlefiber
Material	
Optical fiber head	Stainless steel
Sheath	Fluorethylenpropylen (FEP)
Fibers	Polymethylmethacrylat (PMMA)

Weight	62 g
Ambient data	
Ambient operating temperature	-40 °C +180 °C
Classifications	

Olassifications	
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	100 mm
Operating mode 70 µs	300 mm
Operating mode 250 µs	500 mm
Operating mode 2 ms	850 mm
Operating mode 8 ms	1,400 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light

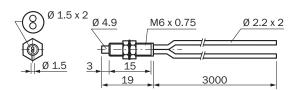
#### Sensing ranges with GLL170

Operating mode 250 µs	210 mm

## Sensing ranges with GLL170T

Operating mode 50 µs	180 mm
Operating mode 250 μs	330 mm

#### Dimensional drawing LL3-DH01-03



## LL3-DH01-03 | Fiber-optic cables

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Dimensions in mm (inch)

#### Recommended accessories

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

	Brief description	Туре	part no.
device protection and care			
	Strich		On request
	Strich		On request

## 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

