

LL3-DH03-03

Fiber-optic cables

FIBERS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
LL3-DH03-03	5324788

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
Application	Heat-resistant ($\geq 100^{\circ}\text{C}$)
Compatible fiber-optic amplifiers	WLL80, WLL180, GLL170(T)
Sensing range max.	Depending on the fiber optic amplifier used
Minimal object diameter	0.02 mm ¹⁾
Optical fiber head	
Angle of dispersion	60°
Integrated lens	No
Compatibility tip adapters	No
Optical fiber	
Compatibility with infrared light	Yes ²⁾
Adapter end sleeves required	No
Included with delivery	Mounting, 2 x M6 hexagon nut, 1 x washer

¹⁾ Minimum detectable object was determined at optimum measuring distance and optimum setting.

²⁾ Reduced sensing ranges possible when using a fiber-optic amplifier with infrared light.

Mechanics

Optical fiber head	
Light emission	Axial
Thread diameter (housing)	M6
Optical fiber taper diameter	≥ 4 mm
Optical fiber taper length after 2 mm	≥ 3 mm
Optical fiber	
Fiber length	3,000 mm
Bending radius	25 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	2.2 mm
Fiber arrangement	Coaxial
Core structure	2 x \emptyset 1,3 mm Coaxial
Material	
Optical fiber head	Copper-zinc alloy (CuZn)

	Sheath	Stainless steel
	Fibers	Glass
Weight		14 g

Ambient data

Ambient operating temperature	-30 °C ... +350 °C
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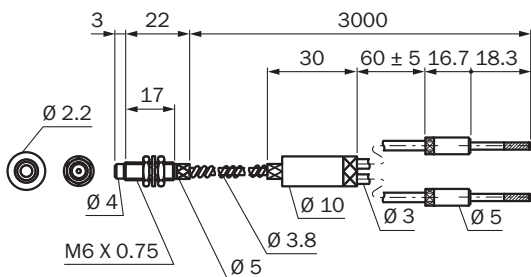
Classifications

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	55 mm
Operating mode 70 µs	220 mm
Operating mode 250 µs	490 mm
Operating mode 2 ms	990 mm
Operating mode 8 ms	1,050 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light

Dimensional drawing (Dimensions in mm (inch))



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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.”

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