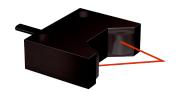


LL3-DC09

Fiber-optic cables

FIBERS





Ordering information

Туре	Part no.
LL3-DC09	5326028

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	Flat type
Application	Lcd / clear material / semiconductor, Limited sensing range
Compatible fiber-optic amplifiers	WLL80, WLL180, GLL170(T), WLL24 Ex, KTL180
Sensing range max.	35 mm (Sensing range of WLL80 at 8 ms)
Minimal object diameter	0.02 mm ¹⁾
Optical fiber head	
Angle of dispersion	25.91°
Integrated lens	Yes
Compatibility tip adapters	No
Optical fiber	
Compatibility with infrared light	No
Optical fiber cable can be shortened	√
Adapter end sleeves required	Yes
Included with delivery	Mounting, 2 x M2 hexagon nut, 4 x washer, 2 x M2 Phillips-head screw, adapter sleeves, BF-WLL160-10 (1.0 mm) adapter sleeves, FC fiber cutter (5304141)

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

Mechanics

Optical fiber head	
Light emission	Axial
Optical fiber	
Fiber length	2,000 mm
Bending radius	10 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	1 mm
Fiber arrangement	Singlefiber
Core structure	2 x Ø 0,5 mm Singlefiber
Material	
Optical fiber head	Acrylnitril-Butadien-Styrol (ABS)
Sheath	Polyethylen (PE)
Fibers	Polymethylmethacrylat (PMMA)

Weight	38 g
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 WLL80	
Operating mode 16 µs	4.9 mm 11 mm
Operating mode 70 µs	0 mm 18 mm
Operating mode 250 μs	0 mm 22 mm
Operating mode 500 μs	0 mm 24 mm
Operating mode 1 ms	0 mm 25 mm
Operating mode 2 ms	0 mm 29 mm
Operating mode 8 ms	0 mm 35 mm
Sensing ranges with WLL180T	
Operating mode 16 µs	6 mm 8 mm
Operating mode 70 μs	6 mm 10 mm
Operating mode 250 µs	5 mm 11 mm
Operating mode 2 ms	4 mm 13 mm
Operating mode 8 ms	9 mm 17 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light
Sensing ranges with GLL170	
Operating mode 250 μs	4 mm 9 mm
Sensing ranges with GLL170T	
Operating mode 50 µs	10 mm 14 mm

LL3-DC09 | Fiber-optic cables

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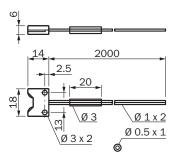
Operating mode 250 µs	6 mm 19 mm
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Sensing ranges with KTL180

Operating mode 16 μs	6.5 mm
Operating mode 200 μs	6.5 mm

Dimensional drawing (Dimensions in mm (inch))

LL3-DC09



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."

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Contacts and other locations -www.sick.com

