

LL3-DW01

Fiber-optic cables

FIBERS





Ordering information

Туре	Part no.
LL3-DW01	5315234

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 (≥100°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.

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	1,000 mm
Bending radius	25 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	2.2 mm
Material	
Optical fiber head	Stainless steel
Sheath	Stainless steel
Fibers	Glass

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

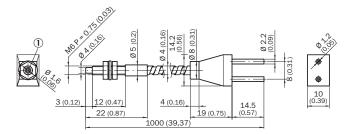
Weight	46 g
Ambient data	
Ambient operating temperature	-40 °C +210 °C
Classifications	
ECLASS 5.0	27270905
ECLASS 5.1.4	27270905
ECLASS 6.0	27270905
ECLASS 6.2	27270905
ECLASS 7.0	27270905
ECLASS 8.0	27270905
ECLASS 8.1	27270905
ECLASS 9.0	27270905
ECLASS 10.0	27270905
ECLASS 11.0	27270905
ECLASS 12.0	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	20 mm
Operating mode 70 µs	50 mm
Operating mode 250 μs	95 mm
Operating mode 2 ms	150 mm
Operating mode 8 ms	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	142 mm
Sensing ranges with GLL170T	
Operating mode 50 μs	206 mm

323 mm

Operating mode 250 μs

Dimensional drawing (Dimensions in mm (inch))

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