

LL3-LM401000

Fiber-optic cables

FIBER-OPTIC SENSORS



Ordering information



Туре	part no.
LL3-LM401000	2082375

Other models and accessories → www.sick.com/Fiber-optic_cables

Illustration may differ

Detailed technical data

Features

Device type	Fiber-optic cables
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Functional principle	Proximity system
Fiber-optic head design	Smooth sleeve
Application	Standard
Compatible fiber-optic amplifiers	GLL70, WLL80, WLL180, GLL170(T)
Sensing range max.	Depending on the fiber optic amplifier used
Minimal object diameter	0.5 mm
Optical fiber head	
Angle of dispersion	54°
Integrated lens	Yes
Compatibility tip adapters	No
Optical fiber	
Compatibility with infrared light	Yes ¹⁾
Adapter end sleeves required	No

 $^{^{1)}}$ Reduced sensing ranges possible when using a fiber-optic amplifier with infrared light.

Mechanics

Optical fiber head	
Light emission	Axial
Smooth sleeve diameter	7 mm
Optical fiber	
Fiber length	1,000 mm
Bending radius	20 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	2.2 mm
Fiber arrangement	Multi-fiber
Core structure	Multi-fiber
Material	
Optical fiber head	Stainless steel

	Sheath	Chrome-plated helical metal spring with PVC sheathing
	Fibers	Glass
Weight		62 g

Ambient data

Ambient operating temperature	-10 °C +60 °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	40 mm
Operating mode 70 µs	40 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light

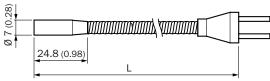
Sensing ranges with GLL170

Operating mode 250 µs	12 mm

Sensing ranges with GLL170T

Operating mode 50 µs	16 mm
Operating mode 250 µs	20 mm

Dimensional drawing



Dimensions in mm (inch)

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