

LL3-TH08-3

Fiber-optic cables

FIBERS





Ordering information

Туре	Part no.
LL3-TH08-3	5328051

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

Detailed technical data

Features

Device type	Fiber-optic cables
Functional principle	Through-beam 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	0.04 mm ¹⁾
Optical fiber head	
Angle of dispersion	60°
Integrated lens	No
Compatibility tip adapters	Yes
Optical fiber	
Compatibility with infrared light	Yes ²⁾
Adapter end sleeves required	No

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

Mechanics

Optical fiber head	
Light emission	Axial
Thread diameter (housing)	M4
Optical fiber taper diameter	≥ 2.6 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	Singlefiber
Core structure	Ø 1,2 mm Singlefiber
Material	
Optical fiber head	Stainless steel
Sheath	Stainless steel

 $^{^{2)} \}mbox{Reduced sensing ranges possible when using a fiber-optic amplifier with infrared light.} \label{eq:possible}$

Fibers	Glass
Weight	15 g

Ambient data

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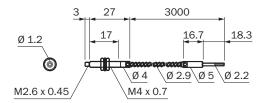
Classifications

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
JNSPSC 16.0901	39121528

Sensing ranges with WLL180T

Operating mode 16 µs	150 mm
Operating mode 70 µs	480 mm
Operating mode 250 µs	790 mm
Operating mode 2 ms	1,500 mm
Operating mode 8 ms	1,600 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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