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DATA SHEET

LLTE-R1400111020E3

Fiber-optic cables
Fiber-optic sensors

SICK Sensor Intelligence



Illustration may differ

FIBER-OPTIC SENSORS

LLTE-R1400111020E3

ORDERING INFORMATION

Type	part no.
LLTE-R1400111020E3	2115014

Further device versions and accessories at 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, 90° deflection
Application	Standard
Compatible fiber-optic amplifiers	GLL70, WLL80, WLL180, GLL170(T)
Sensing range max.	Depending on the fiber optic amplifier used
Optical fiber head	
Angle of dispersion	60°
Integrated lens	No
Compatibility tip adapters	Yes
Optical fiber	
Compatibility with infrared light	No
Optical fiber cable can be shortened	✓
Adapter end sleeves required	Yes (1 x LLAC-AB10 / 1 x LLAC-AB13)
Items supplied	1 x fiber cutter (LLAC-FC), M4 mounting set (2 x M4 nut + 2 x M4 washer), 2 x fiber adapter bushing (1 x LLAC-AB10 + 1 x LLAC-AB13)

MECHANICS

Optical fiber head	
Light emission	Radial
Thread diameter (housing)	M4
Optical fiber	
Fiber length	2,000 mm
Bending radius	5 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	2.2 mm
Fiber arrangement	Coaxial

Core structure	Ø 0,5 mm Coaxial
Material	
Optical fiber head	Stainless steel
Sheath	Polyethylen (PE)
Fibers	PMMA
Weight	22 g

AMBIENT DATA

Ambient operating temperature	–40 °C ... +60 °C

SENSING RANGES WITH WLL180T

Operating mode 16 µs	25 mm
Operating mode 70 µs	60 mm
Operating mode 250 µs	115 mm
Operating mode 2 ms	250 mm
Operating mode 8 ms	280 mm

SENSING RANGES WITH GLL170

Operating mode 250 µs	30 mm

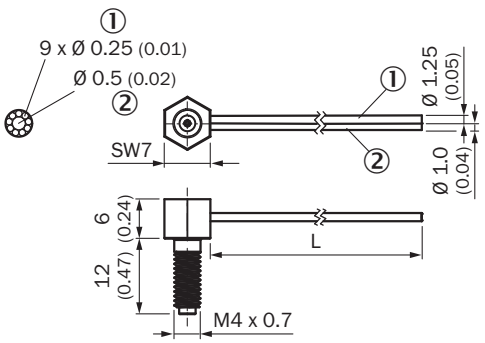
SENSING RANGES WITH GLL170T

Operating mode 50 µs	40 mm
Operating mode 250 µs	65 mm

CERTIFICATES

RoHS manufacturer declaration	✓

DIMENSIONAL DRAWING



Dimensions in mm (inch)
For length of cable (L), see technical data
① receiver
② sender

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/2115014

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SICK AT A GLANCE

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Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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