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DATA SHEET

LLTE-A1300111020E4

Fiber-optic cables
Fiber-optic sensors

SICK Sensor Intelligence



Illustration may differ

FIBER-OPTIC SENSORS

LLTE-A1300111020E4

ORDERING INFORMATION

Type	part no.
LLTE-A1300111020E4	2127945

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
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), M3 mounting set (2 x M3 nut + 2 x M3 washer), 2 x fiber adapter bushing (1 x LLAC-AB10 + 1 x LLAC-AB13)

MECHANICS

Optical fiber head	
Light emission	Axial
Thread diameter (housing)	M3
Optical fiber	
Fiber length	2,000 mm
Bending radius	15 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	21 g

AMBIENT DATA

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

SENSING RANGES WITH WLL180T

Operating mode 16 µs	30 mm
Operating mode 70 µs	90 mm
Operating mode 250 µs	150 mm
Operating mode 2 ms	250 mm
Operating mode 8 ms	370 mm

SENSING RANGES WITH GLL170

Operating mode 250 µs	35 mm

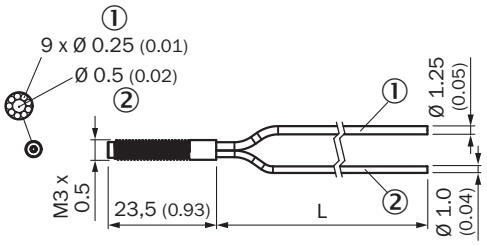
SENSING RANGES WITH GLL170T

Operating mode 50 µs	60 mm
Operating mode 250 µs	100 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/2127945

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SICK AT A GLANCE

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