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DATA SHEET

LLSE-R1400111020C2

Fiber-optic cables
Fiber-optic sensors

SICK Sensor Intelligence



Illustration may differ

FIBER-OPTIC SENSORS

LLSE-R1400111020C2

ORDERING INFORMATION

Type	part no.
LLSE-R1400111020C2	2115020

Further device versions and accessories at www.sick.com/Fiber-optic_cables

DETAILED TECHNICAL DATA

FEATURES

Device type	Fiber-optic cables
Functional principle	Through-beam system, consisting of a sender and a receiver
Fiber-optic head design	Threaded sleeve, 90° deflection
Application	Standard
Compatible fiber-optic amplifiers	GLL70, WLL80, WLL180, GLL170(T), WLL24 Ex
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	No
Items supplied	1 x fiber cutter (LLAC-FC), M4 mounting set (4 x M4 nut + 4 x M4 washer)

MECHANICS

Optical fiber head	
Light emission	Radial
Thread diameter (housing)	M4
Optical fiber	
Fiber length	2,000 mm
Bending radius	2 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	2.2 mm
Fiber arrangement	Singlefiber
Core structure	Ø 1,0 mm Singlefiber
Material	
Optical fiber head	Stainless steel
Sheath	Polyethylen (PE)

Fibers	PMMA
Weight	37 g

AMBIENT DATA

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

SENSING RANGES WITH WLL180T

Operating mode 16 µs	140 mm
Operating mode 70 µs	400 mm
Operating mode 250 µs	600 mm
Operating mode 2 ms	1,400 mm
Operating mode 8 ms	2,000 mm

SENSING RANGES WITH GLL170

Operating mode 250 µs	240 mm

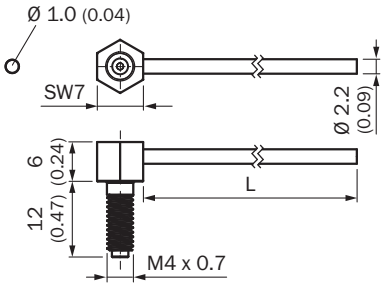
SENSING RANGES WITH GLL170T

Operating mode 50 µs	300 mm
Operating mode 250 µs	490 mm

CERTIFICATES

RoHS manufacturer declaration	✓

DIMENSIONAL DRAWING



Dimensions in mm (inch)
For length of cable (L), see technical data

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/2115020

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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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