



LLSE-A2010111020B4

Fiber-optic cables

FIBERS

SICK
Sensor Intelligence.



Illustration may differ

Ordering information

Type	Part no.
LLSE-A2010111020B4	2115021

Included in delivery: LLAC-AB10 (2), LLAC-FC (1)

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	Smooth sleeve
Application	Standard
Compatible fiber-optic amplifiers	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	No
Optical fiber	
Compatibility with infrared light	No
Optical fiber cable can be shortened	✓
Adapter end sleeves required	Yes (2 x LLAC-AB10)
Items supplied	1 x fiber cutter (LLAC-FC), 2 x fiber adapter bushing (LLAC-AB10)

Mechanics

Optical fiber head		
Light emission	Axial	
Smooth sleeve diameter	1.5 mm	
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	Singlefiber	
Core structure	Ø 0,5 mm Singlefiber	
Material		
Optical fiber head	Stainless steel	
Sheath	Polyethylen (PE)	
Fibers	PMMA	
Weight	17 g	

Ambient data

Ambient operating temperature	-40 °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	70 mm
Operating mode 70 µs	150 mm
Operating mode 250 µs	250 mm
Operating mode 2 ms	500 mm
Operating mode 8 ms	650 mm

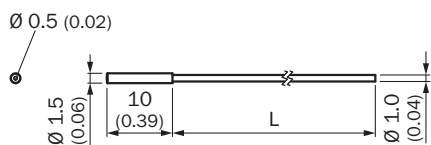
Sensing ranges with GLL170

Operating mode 250 µs	90 mm
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Sensing ranges with GLL170T

Operating mode 50 µs	140 mm
Operating mode 250 µs	200 mm



Dimensional drawing (Dimensions in mm (inch))



For length of cable (L), see technical data

Recommended accessories

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

	Brief description	Type	Part no.
Others			
	<ul style="list-style-type: none"> Product family: Assembly accessories Description: Adapter sleeve for Ø 1.0 mm LLX fibers for adaptation to Ø 2.2 mm, in LLX scope of delivery Items supplied: 1 pieces 	LLAC-AB10	2119446
	<ul style="list-style-type: none"> Product family: Assembly accessories Description: Fiber cutting tool, in LLX scope of delivery Items supplied: 1 pieces 	LLAC-FC	2119448

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

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