LL3-LT31450S01

Fiber-optic cables

FIBERS



LL3-LT31450S01 | Fiber-optic cables

FIBERS



Ordering information

	Туре	Part no.
	LL3-LT31450S01	2088456

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

Detailed technical data

Features

Device type	Fiber-optic cables
Functional principle	Proximity system
Fiber-optic head design	Smooth sleeve, Long end sleeve
Application	Standard
Special features	Fibre-optic connection sleeves made of metal
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	Yes ¹⁾
Adapter end sleeves required	No

 $^{1)}\ensuremath{\mathsf{Reduced}}\xspace$ sensing ranges possible when using a fiber-optic amplifier with infrared light.

Mechanics

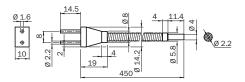
Optical fiber head	
Light emission	Axial
Smooth sleeve diameter	5.8 mm
Optical fiber taper diameter	≥ 4 mm
Optical fiber taper length after 2 mm	≥ 11.4 mm
Optical fiber	
Fiber length	450 mm
Bending radius	20 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	2.2 mm
Fiber arrangement	Multi-fiber
Core structure	Multi-fiber
Material	
Optical fiber head	Stainless steel
Sheath	Chrome-plated helical metal spring
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Anbient operating temperature-10 °C +60 °CClassificationsECLASS 5.027270905ECLASS 6.027270905ECLASS 6.027270905ECLASS 8.027270905ECLASS 9.027270905ECLASS 9.027270905ECLASS 9.027270905ECLASS 10.027270905ECLASS 10.027270905ECLASS 11.027270905ECLASS 12.027270905ECLASS 10.027270905ECLASS 10.0200051ETIM 5.05002651ETIM 5.05002651ETIM 5.05002651ECLASS 10.0312152Operating mode 19 µs100 µmOperating mode 20 µs300 µmOperating mode 20 µs300 µmOperating mode 250 µs50 µsOp	Weight	33 g			
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NoteSensing ranges related to fiber-optic sensors with type of light: visible red lightSensing ranges with GLL17093 mmOperating mode 250 μs93 mmSensing ranges with GLL170T130 mm	Operating mode 2 ms	300 mm			
Sensing ranges with GLL170 operating mode 250 µs 93 mm Sensing ranges with GLL170T operating mode 50 µs 130 mm	Operating mode 8 ms	310 mm			
Operating mode 250 μs 93 mm Sensing ranges with GLL170T 93 mm Operating mode 50 μs 130 mm	Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light			
Sensing ranges with GLL170T Operating mode 50 μs 130 mm	Sensing ranges with GLL170				
Operating mode 50 μs 130 mm	Operating mode 250 µs	93 mm			
	Sensing ranges with GLL170T				
Operating mode 250 µs 242 mm	Operating mode 50 µs	130 mm			
	Operating mode 250 µs	242 mm			

Dimensional drawing (Dimensions in mm (inch))

LL3-LT31450



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