# 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 <sup>1)</sup>
Adapter end sleeves required	No

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

#### Mechanics

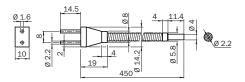
Optical fiber head	
Light emission	Axial
Smooth sleeve diameter	5.8 mm
Optical fiber taper diameter	≥ 4 mm
Optical fiber taper length after 2 mm	≥ 11.4 mm
Optical fiber	
Fiber length	450 mm
Bending radius	20 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	2.2 mm
Fiber arrangement	Multi-fiber
Core structure	Multi-fiber
Material	
Optical fiber head	Stainless steel
Sheath	Chrome-plated helical metal spring
Fibers	Glass

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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			
Classifications       EcLass 5.0     27270905       EcLass 5.1.4     27270905       EcLass 5.2     27270905       EcLAss 5.4     27270905       EcLAss 5.0     27270905       EcLAss 5.0     27270905       EcLAss 5.0     27270905       EcLAss 5.0     27270905       EcLAss 5.1     27270905       EcLAss 5.1.0     27270905       EcLAss 5.1.0     27270905       EcLAss 1.1.0     27270905       EcLAss 1.1.0     27270905       EcLAss 1.1.0     27270905       EcLAss 1.1.0     27270905       EtTM 5.0     27270905       ETIM 5.0     27270905       ETIM 5.0     E002651       ETIM 5.0     E002651       ETIM 5.0     E002551       ETIM 5.0     E002651       Sonsing ranges with WLL180*     200051       Sonsing ranges with WLL180*     200051       Operating mode 16 µs     50 mm       Operating mode 26 µs     20 mm       Operating mode 26 µs     20 mm       Operating mode 250 µs <th>Ambient data</th> <th></th>	Ambient data				
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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				
<b>Operating mode 50 μs</b> 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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