LL3-LT31450S01

Fiber-optic cables

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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

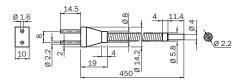
Optical fiber head	
Light emission	Axial
Smooth sleeve diameter	5.8 mm
Optical fiber taper diameter	≥ 4 mm
Optical fiber taper length after 2 mm	≥ 11.4 mm
Optical fiber	
Fiber length	450 mm
Bending radius	20 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	2.2 mm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

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Weight	33 g			
Ambient data				
Ambient operating temperature	-10 °C +60 °C			
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			
ЕТІМ 7.0	EC002651			
ETIM 8.0	EC002651			
UNSPSC 16.0901	39121528			
Sensing ranges with WLL180T				
Operating mode 16 µs	50 mm			
Operating mode 70 µs	140 mm			
Operating mode 250 µs	240 mm			
Operating mode 2 ms	300 mm			
Operating mode 8 ms	310 mm			
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light			
Sensing ranges with GLL170				
Operating mode 250 µs	93 mm			
Sensing ranges with GLL170T				
Operating mode 50 µs	130 mm			
Operating mode 250 µs	242 mm			

Dimensional drawing (Dimensions in mm (inch))

LL3-LT31450



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