



SICK Sensor Intelligence.

FIBERS

LL3-LM35450 | Fiber-optic cables

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Ordering information

	Туре	Part no.
	LL3-LM35450	2073489

Illustration may differ

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
Application	Standard
Compatible fiber-optic amplifiers	WLL80, WLL180, GLL170(T)
Sensing range max.	Depending on the fiber optic amplifier used
Minimal object diameter	0.5 mm
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

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

Mechanics

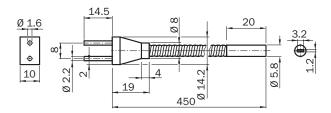
Optical fiber head	
Light emission	Axial
Smooth sleeve diameter	5.8 mm
Optical fiber	
Fiber length	450 mm
Bending radius	20 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	2.2 mm
Fiber arrangement	Multi-fiber
Core structure	Multi-fiber
Material	
Optical fiber head	Chrome-plated metal coil
Sheath	Polyvinylchlorid (PVC)
Fibers	Glass
Weight	32 g

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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		
ETIM 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	160 mm		
Operating mode 250 µs	190 mm		
Operating mode 2 ms	200 mm		
Operating mode 8 ms	201 mm		
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light		
Sensing ranges with GLL170	Sensing ranges with GLL170		
Operating mode 250 µs	105 mm		
Sensing ranges with GLL170T			
Operating mode 50 µs	54 mm		
Operating mode 250 µs	96 mm		

Dimensional drawing (Dimensions in mm (inch))

LL3-LM35450



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:

Contacts and other locations -www.sick.com



Online data sheet

