

LL3-LM31150

Fiber-optic cables

FIBERS



Ordering information

Туре	Part no.
LL3-LM31150	2073483

Illustration may differ

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

Detailed technical data

Features

Fiber-optic cables
Proximity system
Smooth sleeve, Long end sleeve
Standard
WLL80, WLL180, GLL170(T)
Depending on the fiber optic amplifier used
0.5 mm
60°
No
No
Yes ¹⁾
No

 $^{^{1)}}$ Reduced 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	150 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	16 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
ETIM 7.0	EC002651
ETIM 8.0	EC002651
UNSPSC 16.0901	39121528
Sensing ranges with WLL180T	
Operating mode 16 µs	60 mm
Operating mode 70 µs	170 mm
Operating mode 250 µs	270 mm
Operating mode 2 ms	370 mm
Operating mode 8 ms	400 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light
Sensing ranges with GLL170	
Operating mode 250 µs	105 mm
Sensing ranges with GLL170T	
Operating mode 50 µs	185 mm

279 mm

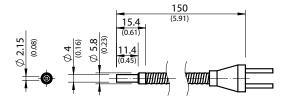
Operating mode 250 µs

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Dimensional drawing (Dimensions in mm (inch))

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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.

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