



LL3-LM31150

LL3

FIBERS

SICK
Sensor Intelligence.



Illustration may differ

Ordering information

Type	Part no.
LL3-LM31150	2073483

Other models and accessories → www.sick.com/LL3

Detailed technical data

Features

Device type	Fibers
Functional principle	Proximity system
Functional principle detail	Consisting of a sender and a receiver
For fiber-optic sensor	GLL170(T), WLL180T
Fiber length	150 mm
Fiber material	Glass
Jacket material	Polyvinylchlorid (PVC)
Fiber head material	Chrome-plated metal coil
Outer diameter, fiber-optic cable connection	2.2 mm
Smooth sleeve diameter (greatest diameter)	5.8 mm
Fiber-optic head design	Smooth sleeve, Long end sleeve
Fiber arrangement	Multi-fiber – fiber bundle
Core structure	Multi-fiber – fiber bundle
Angle of dispersion < 60°	No
Compatibility with infrared light (1,450 nm)	Yes ¹⁾
Diameter/thread size from 2 mm taper	≥ 4 mm
Length of taper	≥ 11.4 mm
Diameter of taper	≥ 4 mm
Highly flexible/elastic fibers (bend radius 1–4 mm)	No
Adapter end sleeves required	No
Angle of dispersion	60°
Integrated lens	No
Minimal object diameter	0.5 mm
Compatibility tip adapters	No

¹⁾ Reduced sensing ranges possible when using a fiber-optic amplifier with infrared light.

Mechanics/electronics

Bend radius, fibre-optic cable	20 mm
Ambient operating temperature	-10 °C ... +60 °C

Classifications

ECI@ss 5.0	27270905
ECI@ss 5.1.4	27270905
ECI@ss 6.0	27270905
ECI@ss 6.2	27270905
ECI@ss 7.0	27270905
ECI@ss 8.0	27270905
ECI@ss 8.1	27270905
ECI@ss 9.0	27270905
ECI@ss 10.0	27270905
ECI@ss 11.0	27270905
ECI@ss 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

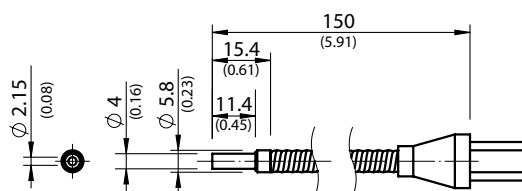
Operating mode 250 μs	105 mm
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Sensing ranges with GLL170T

Operating mode 50 μs	185 mm
Operating mode 250 μs	279 mm

Dimensional drawing (Dimensions in mm (inch))

LL3-LM31150



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