

SICK Sensor Intelligence.

FIBER-OPTIC SENSORS AND FIBERS

LL3-LM311500 | LL3

FIBER-OPTIC SENSORS AND FIBERS



Ordering information

Туре	Part no.
LL3-LM311500	2073486

Other models and accessories \rightarrow www.sick.com/LL3

Illustration may differ

Detailed technical data

Features

Device type	Fibers
Detection principle	Proximity system
For fiber-optic sensor	GLL170(T), WLL180T
Fiber length	1.5 m
Fiber material	Stone, ceramic, glass
Jacket material	Polyvinylchlorid (PVC)
Fiber head material	Chrome-plated metal coil
Outer diameter, fiber-optic cable connec- tion	2.2 mm
Smooth sleeve diameter (greatest diameter)	≥ 5.8 mm
Fiber-optic head design	Smooth sleeve, Long end sleeve
Array width	4 mm
Fiber arrangement	Multi-fiber – fiber bundle
Core structure	Multi-fiber – fiber bundle
Bend radius, fibre-optic cable	20 mm
Angle of dispersion < 60 °	No
Compatibility with infrared light (1,450 nm)	Yes
Ambient operating temperature	-10 °C +60 °C
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

Classifications

ECI@ss 5.0	27270905
ECI@ss 5.1.4	27270905
ECI@ss 6.0	27270905

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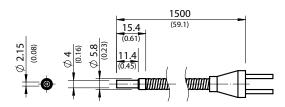
ECI@ss 6.2	27270905
ECI@ss 7.0	27270905
ECI@ss 8.0	27270905
ECI@ss 8.1	27270905
ECI@ss 9.0	27270905
ETIM 5.0	EC002651
ETIM 6.0	EC002651
UNSPSC 16.0901	39121528

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	220 mm
Operating mode 8 ms	220 mm
Sensing ranges with GLL170	
Operating mode 250 µs	125 mm
Sensing ranges with GLL170T	
Operating mode 50 µs	217 mm
Operating mode 250 µs	332 mm

Dimensional drawing (Dimensions in mm (inch))

LL3-LM311500



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

