

# LL3-LM311500

LL3

**FIBERS** 



# 2

#### Ordering information

Туре	Part no.
LL3-LM311500	2073486

Illustration may differ

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

#### Detailed technical data

#### Features

Fibers, fiber suitable for WLL260
Proximity system
Consisting of a sender and a receiver
GLL170(T), WLL180
1,500 mm
Glass
Polyvinylchlorid (PVC)
Chrome-plated metal coil
2.2 mm
5.8 mm
Smooth sleeve, Long end sleeve
4 mm
Multi-fiber – fiber bundle
Multi-fiber – fiber bundle
No
Yes <sup>1)</sup>
≥ 4 mm
≥ 11.4 mm
≥ 4 mm
No
No
60°
No
0.5 mm
No

 $<sup>^{1)}</sup>$  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

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	140 mm
Operating mode 250 µs	240 mm
Operating mode 2 ms	220 mm
Operating mode 8 ms	220 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light

# Sensing ranges with GLL170

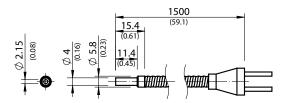
Operating mode 250 µs	125 mm
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# Sensing ranges with GLL170T

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

