

LL3-TH08-3

LL3

**FIBERS** 





## Ordering information

Туре	Part no.
LL3-TH08-3	5328051

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

#### Detailed technical data

#### **Features**

Device type	Fibers
Functional principle	Through-beam system
Functional principle detail	Consisting of a sender and a receiver
For fiber-optic sensor	GLL170(T), WLL180
Fiber length	3,000 mm
Fiber material	Glass
Jacket material	Stainless steel
Fiber head material	Stainless steel
Outer diameter, fiber-optic cable connection	2.2 mm
Thread diameter (housing)	M4
Fiber-optic head design	Threaded sleeve
Fiber arrangement	Monofiber
Core structure	Ø 1,2 mm Monofiber
Angle of dispersion < 60°	No
Compatibility with infrared light (1,450 nm)	Yes <sup>1)</sup>
Application	Heat-resistant (≥100°C)
Diameter/thread size from 2 mm taper	≥ 2.6 mm
Length of taper	≥ 3 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	0.04 mm <sup>2)</sup>
Compatibility tip adapters	Yes

 $<sup>^{1)}</sup>$  Reduced sensing ranges possible when using a fiber-optic amplifier with infrared light.

## Mechanics/electronics

Bend radius, fibre-optic cable	25 mm
Ambient operating temperature	-30 °C +350 °C

<sup>2)</sup> Minimum detectable object was determined at optimum measuring distance and optimum setting.

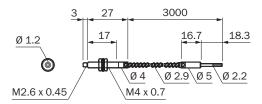
## Classifications

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	150 mm
Operating mode 70 µs	480 mm
Operating mode 250 µs	790 mm
Operating mode 2 ms	1,500 mm
Operating mode 8 ms	1,600 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light

## 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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