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Product data sheet



LL3-TH08

LL3

FIBERS

SICK
Sensor Intelligence.

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LL3-TH08 | LL3

FIBERS



Ordering information

Type	Part no.
LL3-TH08	5325978

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

Detailed technical data

Features

Device type	Fibers
Detection principle	Through-beam system (consisting of a sender and a receiver)
For fiber-optic sensor	GLL170(T), WLL180T
Fiber length	2,000 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
Bend radius, fibre-optic cable	25 mm
Angle of dispersion < 60°	No
Compatibility with infrared light (1,450 nm)	Yes
Ambient operating temperature	–30 °C ... +350 °C
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 [1]
Compatibility tip adapters	Yes

[1] Minimum detectable object was determined at optimum measuring distance and optimum setting.

Mechanics/electronics

Bend radius, fibre-optic cable	25 mm

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Ambient operating temperature	–30 °C ... +350 °C

Classifications

ECl@ss 5.0	27270905
ECl@ss 5.1.4	27270905
ECl@ss 6.0	27270905
ECl@ss 6.2	27270905
ECl@ss 7.0	27270905
ECl@ss 8.0	27270905
ECl@ss 8.1	27270905
ECl@ss 9.0	27270905
ECl@ss 10.0	27270905
ECl@ss 11.0	27270905
ETIM 5.0	EC002651
ETIM 6.0	EC002651
ETIM 7.0	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

Sensing ranges with GLL170

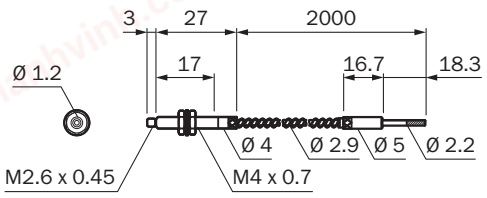
Operating mode 250 µs	560 mm

Sensing ranges with GLL170T

Operating mode 50 µs	470 mm
Operating mode 250 µs	680 mm

Dimensional drawing (Dimensions in mm (inch))

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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