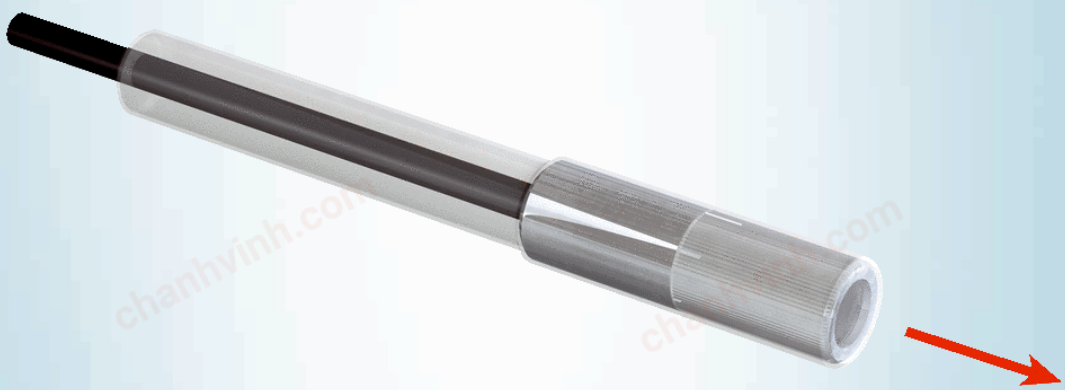
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Product data sheet



LL3-TY01

LL3

FIBERS

SICK
Sensor Intelligence.

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FIBERS



Ordering information

Type	Part no.
LL3-TY01	5308066

Included in delivery: FC (1)

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, WLL24 Ex
Fiber length	2,000 mm
Fiber material	Polymethylmethacrylat (PMMA)
Jacket material	Polytetrafluorethylen (PTFE)
Fiber head material	Polytetrafluorethylen (PTFE)
Outer diameter, fiber-optic cable connection	2.2 mm
Fiber-optic cable cuttable	✓
Smooth sleeve diameter (greatest diameter)	6 mm
Fiber-optic head design	Smooth sleeve
Fiber arrangement	Monofiber
Core structure	Ø 1,0 mm Monofiber
Bend radius, fibre-optic cable	60 mm
Angle of dispersion < 60 °	Yes
Compatibility with infrared light (1,450 nm)	No
Ambient operating temperature	–40 °C ... +70 °C
Application	Resistant to oil/chemicals
Highly flexible/elastic fibers (bend radius 1–4 mm)	No
Adapter end sleeves required	No
Angle of dispersion	34.45°
Integrated lens	Yes
Minimal object diameter	0.3 mm [1)]
Included with delivery	FC fiber cutter (5304141)
Compatibility tip adapters	No
Special features	Teflon sheathing: chemically resistant

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

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Mechanics/electronics

Bend radius, fibre-optic cable	60 mm
Ambient operating temperature	–40 °C ... +70 °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	400 mm
Operating mode 70 µs	1,200 mm
Operating mode 250 µs	2,100 mm
Operating mode 2 ms	4,000 mm
Operating mode 8 ms	4,000 mm

Sensing ranges with GLL170

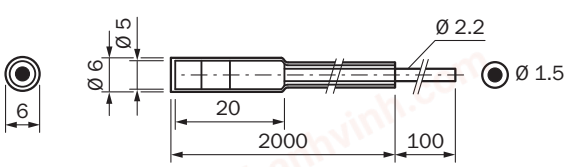
Operating mode 250 µs	870 mm

Sensing ranges with GLL170T

Operating mode 50 µs	800 mm
Operating mode 250 µs	1,370 mm

Dimensional drawing (Dimensions in mm (inch))

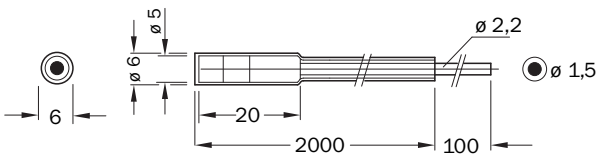
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SICK AT A GLANCE

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