

LL3-DT01

LL3

**FIBERS** 





### Ordering information

Туре	Part no.
LL3-DT01	5308076

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

#### Detailed technical data

#### **Features**

Device type	Fibers
Functional principle	Proximity system
For fiber-optic sensor	GLL170(T), WLL180T, WLL80
Fiber length	2,000 mm
Fiber material	Polymethylmethacrylat (PMMA)
Jacket material	Polyethylen (PE)
Fiber head material	Stainless steel <sup>1)</sup>
Outer diameter, fiber-optic cable connection	1.3 mm
Fiber-optic cable cuttable	✓
Thread diameter (housing)	M3
Fiber-optic head design	Threaded sleeve
Fiber arrangement	Coaxial arrangement
Core structure	S: Ø 0,5 mm, R: 9 x Ø 0,25 mm <sup>2)</sup> Coaxial arrangement
Angle of dispersion < $60^{\circ}$	No
Compatibility with infrared light (1,450 nm)	No
Highly flexible/elastic fibers (bend radius 1–4 mm)	No
Adapter end sleeves required	Yes
Angle of dispersion	60°
Integrated lens	No
Minimal object diameter	0.015 mm <sup>3)</sup>
Included with delivery	Mounting, 2 x M3 hexagon nut, 2 x washer, adapter sleeves, BF-WLL160-13 (1.3 mm) adapter sleeves, FC fiber cutter (5304141)
Compatibility tip adapters	Yes
Special features	Coaxial construction for exact switching, suitable for tip adapters

 $<sup>^{1)}</sup>$  Stainless steel.

#### Mechanics/electronics

Bend radius, fibre-optic cable	15 mm
Ambient operating temperature	-40 °C +70 °C

<sup>2)</sup> C = Coaxial, S = Sender, E = Receiver.

 $<sup>^{</sup>m 3)}$  Minimum detectable object was determined at optimum measuring distance and optimum setting.

#### Classifications

ECI@ss 5.0	27270905
ECI@ss 5.1.4	27270905
ECI@ss 6.0	27270905
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
ECI@ss 10.0	27270905
ECI@ss 11.0	27270905
ETIM 5.0	EC002651
ETIM 6.0	EC002651
ETIM 7.0	EC002651
ETIM 8.0	EC002651
UNSPSC 16.0901	39121528

# Sensing ranges with WLL80

Operating mode 16 µs	45 mm
Operating mode 70 μs	170 mm
Operating mode 250 μs	265 mm
Operating mode 500 μs	320 mm
Operating mode 1 ms	380 mm
Operating mode 2 ms	505 mm
Operating mode 8 ms	710 mm

# Sensing ranges with WLL180T

Operating mode 16 µs	40 mm
Operating mode 70 µs	130 mm
Operating mode 250 µs	200 mm
Operating mode 2 ms	350 mm
Operating mode 8 ms	600 mm

# Sensing ranges with GLL170

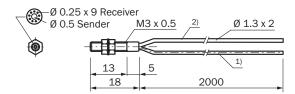
Operating mode 250 μs	70 mm
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# Sensing ranges with GLL170T

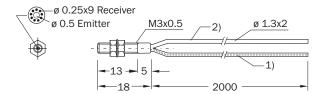
Operating mode 50 µs	60 mm
Operating mode 250 µs	110 mm

#### Dimensional drawing (Dimensions in mm (inch))

#### LL3-DT01



1) Sender 2) Receiver



# SICK AT A GLANCE

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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.

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:**

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