

LL3-DT02

FIBERS





Ordering information

Туре	Part no.
LL3-DT02	5308085

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

Detailed technical data

Features

Device type	Fibers
Detection principle	Proximity system
For fiber-optic sensor	GLL170(T), WLL180T
Fiber length	500 mm
Fiber material	Polymethylmethacrylat (PMMA)
Jacket material	
	Polyethylen (PE)
Fiber head material	Stainless steel ¹⁾
Outer diameter, fiber-optic cable connection	1 mm
Fiber-optic cable cuttable	✓ ²⁾
Thread size	M3
Fiber-optic head design	Threaded sleeve, Long end sleeve
Fiber arrangement	Monofiber
Core structure	2 x Ø 0,25 mm ³⁾ Monofiber
Bend radius, fibre-optic cable	4 mm
Angle of dispersion < 60°	No
Compatibility with infrared light (1,450 nm)	No
Ambient operating temperature	-40 °C +70 °C
Application	High flexible (static), Robotics (dynamic flexible)
Diameter/thread size from 2 mm taper	≥ 0.82 mm
Length of taper	≥ 15 mm
Diameter of taper	≥ 0.82 mm
Highly flexible/elastic fibers (bend radius 1–4 mm)	Yes
Adapter end sleeves required	Yes
Angle of dispersion	60°
Integrated lens	No
Minimal object diameter	0.015 mm ⁴⁾

¹⁾ Stainless steel.

 $^{^{\}rm 2)}$ FC fiber optic cable cutter included in delivery.

³⁾ C = Coaxial, S = Sender, E = Receiver.

 $^{^{}m 4)}$ Minimum detectable object was determined at optimum measuring distance and optimum setting.

Included with delivery	Mounting, 2 x M3 hexagon nut, 2 x washer, adapter sleeves, BF-WLL160-10 (1.0 mm) adapter sleeves, FC fiber cutter (5304141)
Compatibility tip adapters	No
Special features	Compact, thin tip

¹⁾ Stainless steel.

Mechanics/electronics

Bend radius, fibre-optic cable	4 mm
Ambient operating temperature	-40 °C +70 °C

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
UNSPSC 16.0901	39121528

Sensing ranges with WLL180T

Operating mode 16 µs	10 mm
Operating mode 70 µs	30 mm
Operating mode 250 µs	60 mm
Operating mode 2 ms	140 mm
Operating mode 8 ms	225 mm

Sensing ranges with GLL170

Operating mode 250 μs	10 mm
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Sensing ranges with GLL170T

Operating mode 50 µs	10 mm
Operating mode 250 µs	30 mm

²⁾ FC fiber optic cable cutter included in delivery.

³⁾ C = Coaxial, S = Sender, E = Receiver.

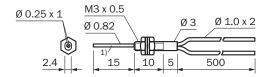
 $^{^{}m 4)}$ Minimum detectable object was determined at optimum measuring distance and optimum setting.

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Dimensional drawing (Dimensions in mm (inch))

LL3-DT02



1) End tip cannot be bent

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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."

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