

LL3-TY036000

FIBERS





Ordering information

Туре	Part no.
LL3-TY036000	5336504

Included in delivery: BF-WLL160-13 (1), FC (1)
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	6,000 mm
Fiber material	Polymethylmethacrylat (PMMA)
Jacket material	Polytetrafluorethylen (PTFE)
Fiber head material	Perfluoralkoxy-Polymere (PFA)
Outer diameter, fiber-optic cable connection	1.3 mm
Fiber-optic cable cuttable	✓
Smooth sleeve diameter (greatest diameter)	5 mm
Fiber-optic head design	Smooth sleeve, 90° deflection
Fiber arrangement	Monofiber
Core structure	Ø 1,0 mm Monofiber
Angle of dispersion < 60°	Yes
Compatibility with infrared light (1,450 nm)	No
Application	Resistant to oil/chemicals
Highly flexible/elastic fibers (bend radius 1–4 mm)	No
Adapter end sleeves required	Yes
Angle of dispersion	28.07°
Integrated lens	Yes
Minimal object diameter	0.3 mm ¹⁾
Included with delivery	Adapter sleeves, BF-WLL160-13 (1.3 mm) adapter sleeves, 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.

Mechanics/electronics

Bend radius, fibre-optic cable	3 mm
Ambient operating temperature	-55 °C +70 °C

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	460 mm
Operating mode 70 µs	1,400 mm
Operating mode 250 µs	2,500 mm
Operating mode 2 ms	4,000 mm
Operating mode 8 ms	4,000 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light

Sensing ranges with GLL170

Operating mode 250 μs 1,290 mm

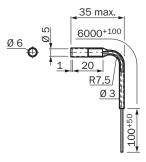
Sensing ranges with GLL170T

Operating mode 50 µs	1,210 mm
Operating mode 250 µs	2,120 mm

LL3-TY036000 | LL3

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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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