

LL3-TV05

FIBER-OPTIC SENSORS AND FIBERS





Ordering information

Туре	Part no.
LL3-TV05	5322546

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

Detailed technical data

Features

Device type	Fibers
Detection principle	Through-beam system
For fiber-optic sensor	GLL170(T), WLL180T, WLL24 Ex
Fiber length	2 m
Fiber material	Polymethylmethacrylat (PMMA)
Jacket material	Polyethylen (PE)
Fiber head material	Polyamid (PA)
Outer diameter, fiber-optic cable connection	2.2 mm
Fiber-optic cable cuttable	✓ ¹⁾
Thread size	M4
Fiber-optic head design	Threaded sleeve, 90° deflection
Bend radius, fibre-optic cable	25 mm
Angle of dispersion < 60°	Yes
Compatibility with infrared light (1,450 nm)	No
Ambient operating temperature	-40 °C +70 °C
Highly flexible/elastic fibers (bend radius 1–4 mm)	No
Adapter end sleeves required	No
Angle of dispersion	15.94°
Integrated lens	Yes
Minimal object diameter	0.4 mm ²⁾
Special features	90° deflection integrated, maximum sensing range
Included with delivery	Mounting, 2 x M4 hexagon nut, FC fiber cutter (5304141)
Compatibility tip adapters	No

 $^{^{1)}\,\}mathrm{FC}$ fiber optic cable cutter included in delivery.

Classifications

ECI@ss 5.0	27270905
ECI@ss 5.1.4	27270905
ECI@ss 6.0	27270905
ECI@ss 6.2	27270905

 $^{^{2)}}$ Minimum detectable object was determined at optimum measuring distance and optimum setting.

ECI@ss 7.0	27270905
ECI@ss 8.0	27270905
ECI@ss 8.1	27270905
ECI@ss 9.0	27270905
ETIM 5.0	EC002651
ETIM 6.0	EC002651
UNSPSC 16.0901	39121528

Sensing ranges with WLL180T

Operating mode 16 µs	350 mm
Operating mode 70 µs	750 mm
Operating mode 250 µs	1,800 mm
Operating mode 2 ms	4,000 mm
Operating mode 8 ms	4,000 mm

Sensing ranges with GLL170

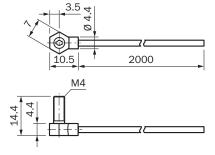
Operating mode 250 µs	640 mm
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Sensing ranges with GLL170T

Operating mode 50 µs	620 mm
Operating mode 250 µs	1,410 mm

Dimensional drawing (Dimensions in mm (inch))

LL3-TV05, LL3-TV06, LL3-TV07



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