

LL3-DB05

FIBERS





Ordering information

Туре	Part no.
LL3-DB05	5326002

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), WLL180, WLL80
Fiber length	1,000 mm
Fiber material	Polymethylmethacrylat (PMMA)
Jacket material	Polyethylen (PE)
Fiber head material	Stainless steel
Outer diameter, fiber-optic cable connection	2.2 mm
Thread diameter (housing)	мз
Fiber-optic head design	Threaded sleeve, Long end sleeve
Fiber arrangement	Coaxial arrangement
Core structure	S: Ø 0,265 mm, R: 9 x Ø 0,125 mm Coaxial arrangement
Angle of dispersion < 60°	No
Compatibility with infrared light (1,450 nm)	No
Diameter/thread size from 2 mm taper	≥ 0.8 mm
Length of taper	≥ 15 mm
Diameter of taper	≥ 0.8 mm
Highly flexible/elastic fibers (bend radius 1–4 mm)	No
Adapter end sleeves required	No
Angle of dispersion	60°
Integrated lens	No
Minimal object diameter	0.02 mm ¹⁾
Included with delivery	Mounting, 2 x M3 hexagon nut, 1 x washer
Compatibility tip adapters	No

 $^{^{1)}}$ Minimum detectable object was determined at optimum measuring distance and optimum setting.

Mechanics/electronics

Bend radius, fibre-optic cable	25 mm
Ambient operating temperature	-40 °C +60 °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 WLL80

Operating mode 16 µs	15 mm
Operating mode 70 μs	60 mm
Operating mode 250 µs	90 mm
Operating mode 500 µs	115 mm
Operating mode 1 ms	140 mm
Operating mode 2 ms	175 mm
Operating mode 8 ms	260 mm

Sensing ranges with WLL180T

Operating mode 16 µs	8 mm
Operating mode 70 μs	25 mm
Operating mode 250 µs	52 mm
Operating mode 2 ms	100 mm
Operating mode 8 ms	110 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light

Sensing ranges with GLL170

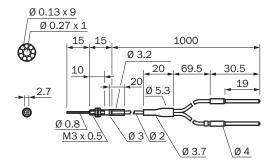
Operating mode 250 µs	20 mm
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Sensing ranges with GLL170T

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

Dimensional drawing (Dimensions in mm (inch))

LL3-DB05



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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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For us, that is "Sensor Intelligence."

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