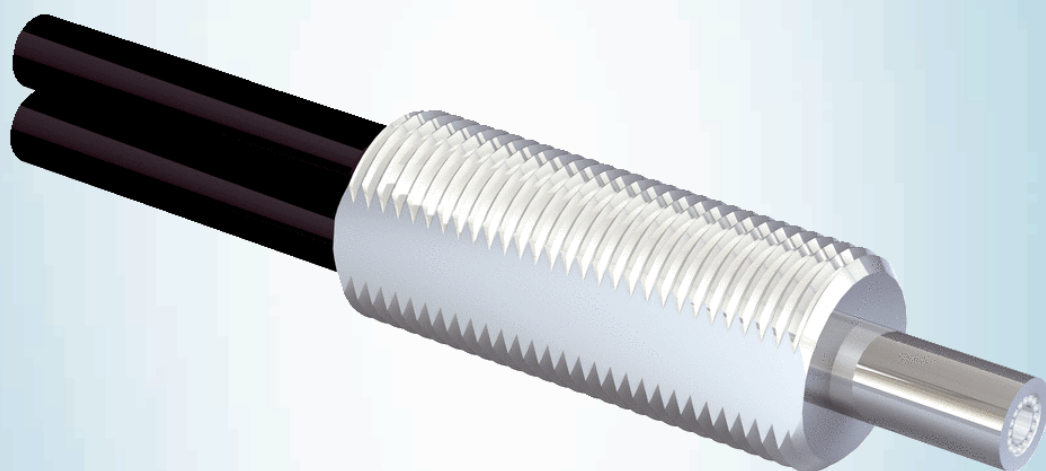


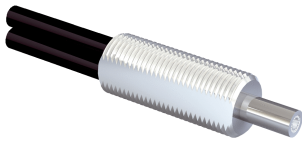


LL3-DB01

LL3

FIBERS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
LL3-DB01	5308074

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, WLL24 Ex, KTL180, WLL80
Fiber length	2,000 mm
Fiber material	Polymethylmethacrylat (PMMA)
Jacket material	Polyethylen (PE)
Fiber head material	Stainless steel ¹⁾
Outer diameter, fiber-optic cable connection	2.2 mm
Fiber-optic cable cuttable	✓
Thread diameter (housing)	M6
Fiber-optic head design	Threaded sleeve
Fiber arrangement	Coaxial arrangement
Core structure	S: Ø 1 mm, R: 16 x Ø 0,25 mm ²⁾ Coaxial arrangement
Angle of dispersion < 60°	No
Compatibility with infrared light (1,450 nm)	No
Diameter/thread size from 2 mm taper	≥ 2.8 mm
Length of taper	≥ 5 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	0.015 mm ³⁾
Included with delivery	Mounting, 2 x M6 hexagon nut, 2 x washer, FC fiber cutter (5304141)
Compatibility tip adapters	No
Special features	Coaxial construction for exact switching. Standard, large sensing range

¹⁾ Stainless steel.

²⁾ C = Coaxial, S = Sender, E = Receiver.

³⁾ Minimum detectable object was determined at optimum measuring distance and optimum setting.

Mechanics/electronics

Bend radius, fibre-optic cable	25 mm
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Ambient operating temperature	-40 °C ... +70 °C
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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
ECI@ss 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	120 mm
Operating mode 70 µs	300 mm
Operating mode 250 µs	500 mm
Operating mode 500 µs	600 mm
Operating mode 1 ms	700 mm
Operating mode 2 ms	800 mm
Operating mode 8 ms	1,250 mm

Sensing ranges with WLL180T

Operating mode 16 µs	90 mm
Operating mode 70 µs	280 mm
Operating mode 250 µs	500 mm
Operating mode 2 ms	900 mm
Operating mode 8 ms	1,350 mm
Note	Sensing ranges referring to fiber-optic sensors with type of light: visible red light

Sensing ranges with GLL170

Operating mode 250 µs	160 mm
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Sensing ranges with GLL170T

Operating mode 50 µs	150 mm
Operating mode 250 µs	290 mm

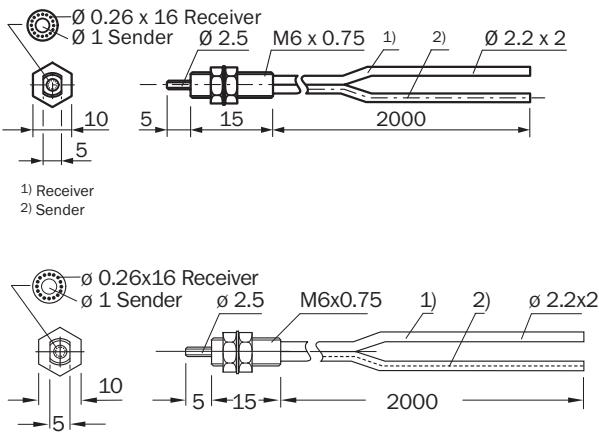
Sensing ranges with KTL180

Operating mode 16 µs	2 mm
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Operating mode 200 µs	2 mm
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Dimensional drawing (Dimensions in mm (inch))

LL3-DB01



Recommended accessories

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

	Brief description	Type	Part no.
Device protection (mechanical)			
	Metal protection hose for LL3-Fibers with M6 threaded head; length 1000 mm, stainless steel, 1 pieces	BEF-LL3M61000	5331291
	Metal protection hose for LL3-Fibers with M6 threaded head; length 500 mm, stainless steel, 1 pieces	BEF-LL3M6500	5331290

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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:

Contacts and other locations –www.sick.com