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Product data sheet



LL3-DV01

LL3

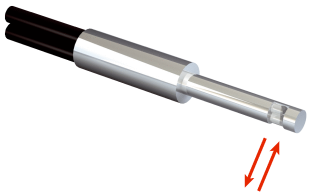
FIBERS

SICK
Sensor Intelligence.

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LL3-DV01 | LL3

FIBERS



Ordering information

Type	Part no.
LL3-DV01	5308088

Included in delivery: FC (1)

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, WLL24 Ex
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	✓
Smooth sleeve diameter (greatest diameter)	5 mm
Fiber-optic head design	Smooth sleeve, Long end sleeve, 90° deflection
Fiber arrangement	Monofiber
Core structure	2 x Ø 1,0 mm [2] Monofiber
Bend radius, fibre-optic cable	25 mm
Angle of dispersion < 60°	No
Compatibility with infrared light (1,450 nm)	No
Ambient operating temperature	–40 °C ... +70 °C
Diameter/thread size from 2 mm taper	≥ 2.7 mm
Length of taper	≥ 20 mm
Diameter of taper	≥ 2.7 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	0.025 mm [3]

[1] Stainless steel.

[2] C = Coaxial, S = Sender, E = Receiver.

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

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Included with delivery	FC fiber cutter (5304141)
Compatibility tip adapters	No
Special features	90° deflection integrated, minimum insertion depths

[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
Ambient operating temperature	–40 °C ... +70 °C

Classifications

ECl@ss 5.0	27270905
ECl@ss 5.1.4	27270905
ECl@ss 6.0	27270905
ECl@ss 6.2	27270905
ECl@ss 7.0	27270905
ECl@ss 8.0	27270905
ECl@ss 8.1	27270905
ECl@ss 9.0	27270905
ECl@ss 10.0	27270905
ECl@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	40 mm
Operating mode 70 µs	135 mm
Operating mode 250 µs	180 mm
Operating mode 2 ms	270 mm
Operating mode 8 ms	330 mm

Sensing ranges with GLL170

Operating mode 250 µs	150 mm

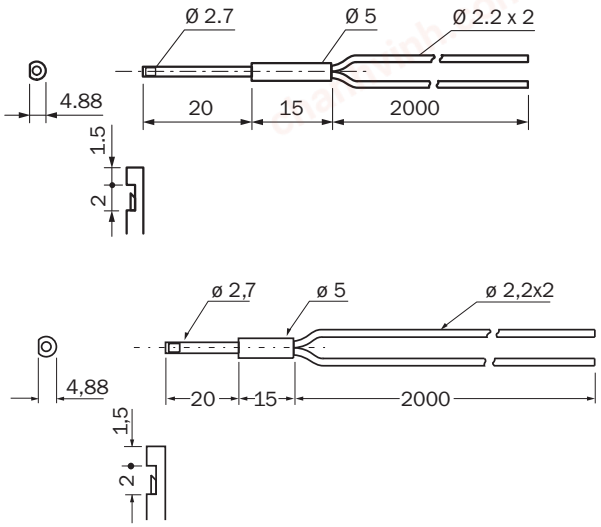
Sensing ranges with GLL170T

Operating mode 50 µs	200 mm
Operating mode 250 µs	300 mm

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Dimensional drawing (Dimensions in mm (inch))

LL3-DV01



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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:

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