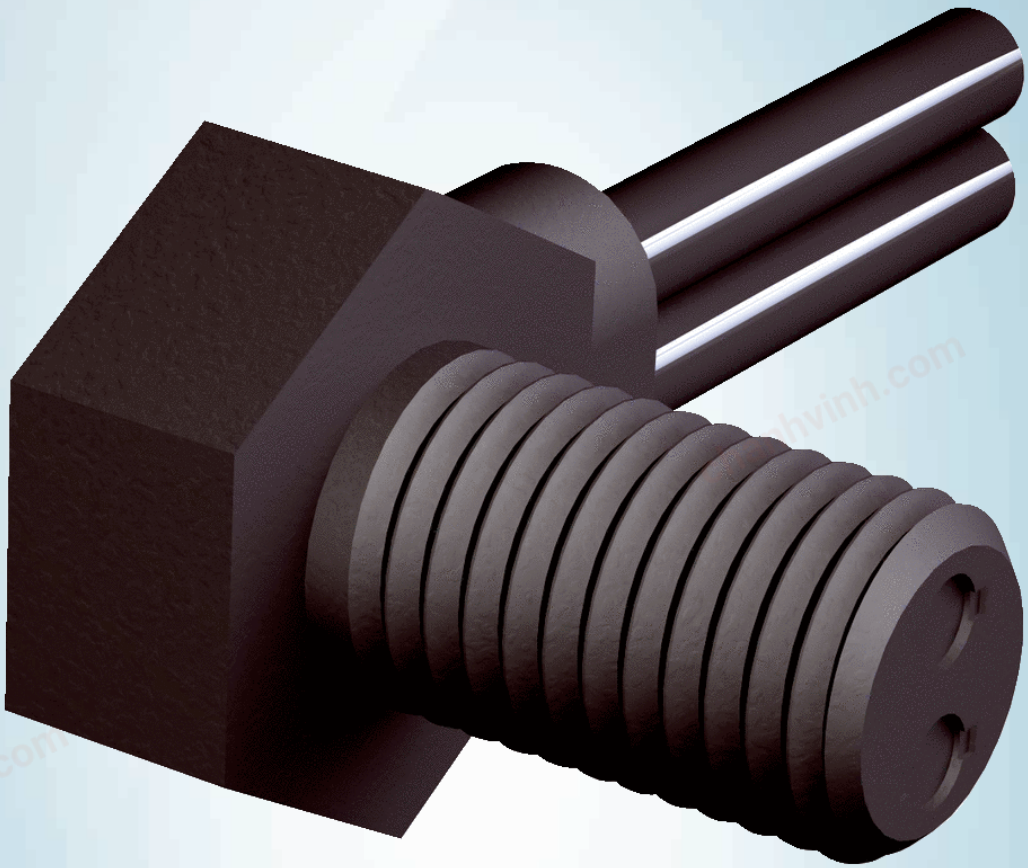
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Product data sheet



LL3-DV05

LL3

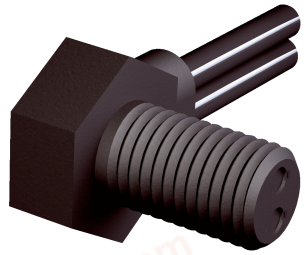
FIBERS

SICK
Sensor Intelligence.

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LL3-DV05 | LL3

FIBERS



Ordering information

Type	Part no.
LL3-DV05	5322549

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	Polyamid (PA)
Outer diameter, fiber-optic cable connection	2.2 mm
Fiber-optic cable cuttable	✓
Thread diameter (housing)	M6
Fiber-optic head design	Threaded sleeve, 90° deflection
Fiber arrangement	Monofiber
Core structure	Monofiber
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	0.015 mm [1)]
Included with delivery	Mounting, 1 x M6 hexagon nut, FC fiber cutter (5304141)
Compatibility tip adapters	No
Special features	90° deflection integrated, minimum insertion depths

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

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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	25 mm
Operating mode 70 µs	110 mm
Operating mode 250 µs	185 mm
Operating mode 2 ms	400 mm
Operating mode 8 ms	650 mm

Sensing ranges with GLL170

Operating mode 250 µs	50 mm

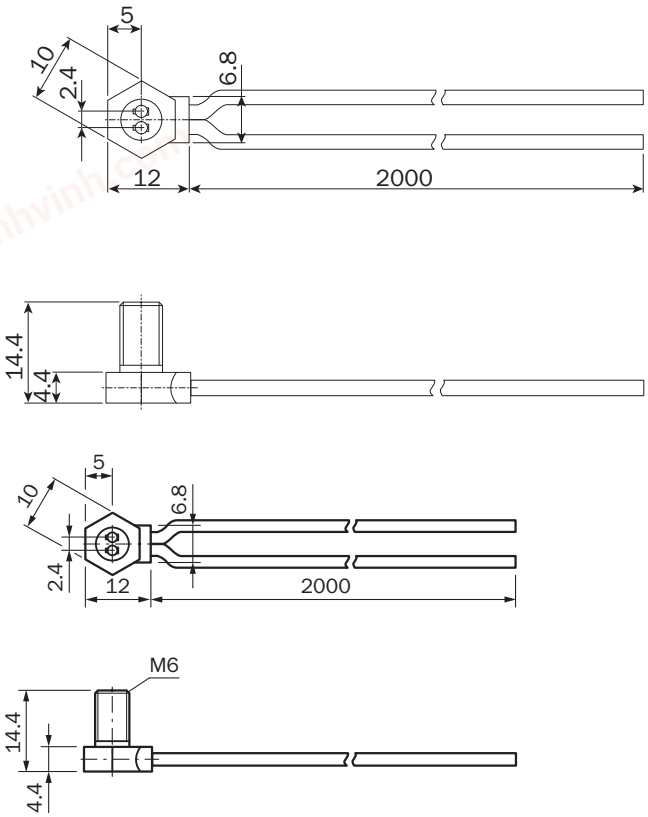
Sensing ranges with GLL170T

Operating mode 50 µs	60 mm
Operating mode 250 µs	100 mm

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Dimensional drawing (Dimensions in mm (inch))

LL3-DV05, LL3-DV06, LL3-DV07



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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:

Contacts and other locations –www.sick.com

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