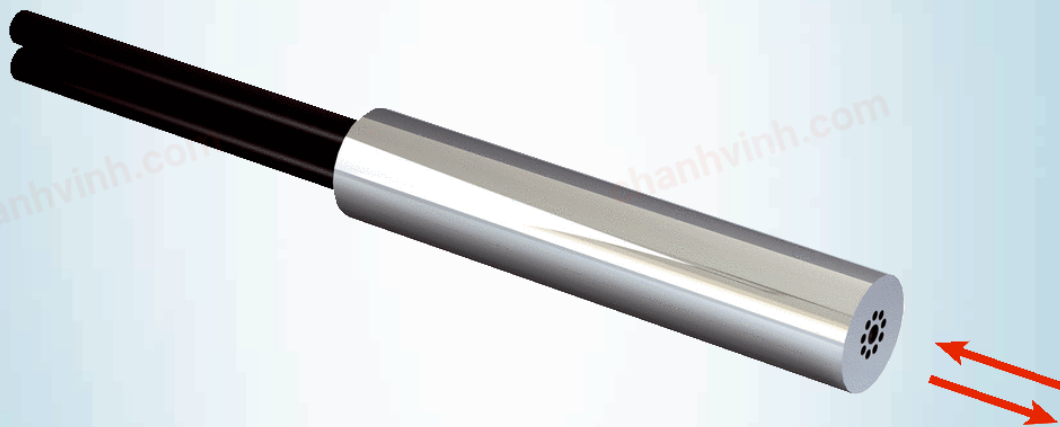




LL3-DR11

LL3

FIBERS

SICK
Sensor Intelligence.

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Ordering information

Type	Part no.
LL3-DR11	5326000

Included in delivery: BF-WLL160-10 (1), 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
Fiber length	2,000 mm
Fiber material	Polymethylmethacrylat (PMMA)
Jacket material	Polyethylen (PE)
Fiber head material	Stainless steel
Outer diameter, fiber-optic cable connection	1.3 mm
Fiber-optic cable cuttable	✓
Smooth sleeve diameter (greatest diameter)	3 mm
Fiber-optic head design	Smooth sleeve
Fiber arrangement	Coaxial arrangement
Core structure	S: Ø 0,5 mm, R: 9 x Ø 0,265 mm Coaxial arrangement
Bend radius, fibre-optic cable	2 mm
Angle of dispersion < 60°	No
Compatibility with infrared light (1,450 nm)	No
Ambient operating temperature	-40 °C ... +60 °C
Application	High flexible (static)
Highly flexible/elastic fibers (bend radius 1-4 mm)	No
Adapter end sleeves required	Yes
Angle of dispersion	60°
Integrated lens	No
Minimal object diameter	0.02 mm ¹⁾
Included with delivery	Adapter sleeves, 1 x BF-WLL160-10 (1.0 mm) adapter sleeve, 1 x BF-WLL160-13 (1.3 mm) adapter sleeve, FC fiber cutter (5304141)
Compatibility tip adapters	No

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

Mechanics/electronics

Bend radius, fibre-optic cable	2 mm
Ambient operating temperature	-40 °C ... +60 °C

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
ETIM 5.0	EC002651
ETIM 6.0	EC002651
ETIM 7.0	EC002651
UNSPSC 16.0901	39121528

Sensing ranges with WLL180T

Operating mode 16 µs	22 mm
Operating mode 70 µs	74 mm
Operating mode 250 µs	140 mm
Operating mode 2 ms	280 mm
Operating mode 8 ms	300 mm

Sensing ranges with GLL170

Operating mode 250 µs	90 mm
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Sensing ranges with GLL170T

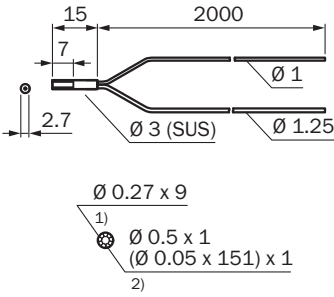
Operating mode 50 µs	40 mm
Operating mode 250 µs	100 mm

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FIBERS

Dimensional drawing (Dimensions in mm (inch))

LL3-DR11



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