

LL3-DC03

FIBERS





Ordering information

Туре	Part no.
LL3-DC03	5326020

Included in delivery: FC(1)

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

Detailed technical data

Features

1 Gataroo	
Device type	Fibers
Functional principle	Proximity system
For fiber-optic sensor	GLL170(T), WLL180, WLL24 Ex, WLL80
Fiber length	4,000 mm
Fiber material	Polymethylmethacrylat (PMMA)
Jacket material	Polyethylen (PE)
Fiber head material	Acrylnitril-Butadien-Styrol (ABS)
Outer diameter, fiber-optic cable connection	2.2 mm
Fiber-optic cable cuttable	✓
Fiber-optic head design	Flat type
Fiber arrangement	Monofiber
Core structure	2 x Ø 1,5 mm Monofiber
Angle of dispersion < 60°	Yes
Compatibility with infrared light (1,450 nm)	No
Application	Lcd / clear material / semiconductor, Limited sensing range
Highly flexible/elastic fibers (bend radius 1–4 mm)	No
Adapter end sleeves required	No
Angle of dispersion	14.81°
Integrated lens	Yes
Minimal object diameter	0.3 mm ¹⁾
Included with delivery	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	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	10.1 mm 95 mm
Operating mode 70 μs	9.6 mm 174 mm
Operating mode 250 μs	0 mm 236 mm
Operating mode 500 μs	0 mm 270 mm
Operating mode 1 ms	0 mm 294 mm
Operating mode 2 ms	0 mm 372 mm
Operating mode 8 ms	0 mm 447 mm

Sensing ranges with WLL180T

Operating mode 16 µs	12 mm 60 mm
Operating mode 70 µs	10 mm 75 mm
Operating mode 250 µs	5 mm 85 mm
Operating mode 2 ms	3 mm 150 mm
Operating mode 8 ms	2 mm 280 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light

Sensing ranges with GLL170

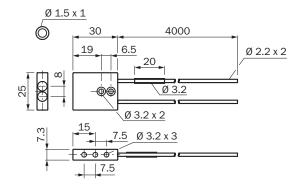
Operating mode 250 µs	11 mm 48 mm
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Sensing ranges with GLL170T

Operating mode 50 μs	17 mm 48 mm
Operating mode 250 μs	7.5 mm 64 mm

Dimensional drawing (Dimensions in mm (inch))

LL3-DC03



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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.

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."

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