

LL3-DY01

LL3

FIBERS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
LL3-DY01	5308093

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, KTL180
Fiber length	2,000 mm
Fiber material	Polymethylmethacrylat (PMMA)
Jacket material	Polytetrafluorethylen (PTFE)
Fiber head material	Polytetrafluorethylen (PTFE)
Outer diameter, fiber-optic cable connection	2.2 mm
Fiber-optic cable cuttable	✓
Smooth sleeve diameter (greatest diameter)	6 mm
Fiber-optic head design	Smooth sleeve
Fiber arrangement	Monofiber
Core structure	2 x Ø 1,0 mm ¹⁾ Monofiber
Bend radius, fibre-optic cable	60 mm
Angle of dispersion < 60°	No
Compatibility with infrared light (1,450 nm)	No
Ambient operating temperature	-40 °C ... +100 °C
Application	Resistant to oil/chemicals
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	0.02 mm ²⁾
Included with delivery	FC fiber cutter (5304141)
Compatibility tip adapters	No

¹⁾ C = Coaxial, S = Sender, E = Receiver.

²⁾ Minimum detectable object was determined at optimum measuring distance and optimum setting.

Special features	Special application: Teflon-coating, chemically resistant
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1) C = Coaxial, S = Sender, E = Receiver.

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

Mechanics/electronics

Bend radius, fibre-optic cable	60 mm
Ambient operating temperature	-40 °C ... +100 °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	100 mm
Operating mode 70 µs	180 mm
Operating mode 250 µs	200 mm
Operating mode 2 ms	150 mm
Operating mode 8 ms	280 mm

Sensing ranges with GLL170

Operating mode 250 µs	110 mm
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Sensing ranges with GLL170T

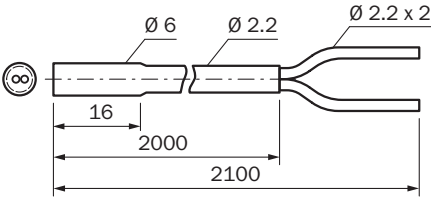
Operating mode 50 µs	160 mm
Operating mode 250 µs	150 mm

Sensing ranges with KTL180

Operating mode 16 µs	2 mm
Operating mode 200 µs	2 mm

Dimensional drawing (Dimensions in mm (inch))

LL3-DY01



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