

LL3-LT31450S01

LL3

FIBERS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
LL3-LT31450S01	2088456

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

Detailed technical data

Features

Device type	Fibers
Functional principle	Proximity system
For fiber-optic sensor	GLL170(T), WLL180
Fiber length	450 mm
Fiber material	Glass
Jacket material	Chrome-plated helical metal spring
Outer diameter, fiber-optic cable connection	2.2 mm
Smooth sleeve diameter (greatest diameter)	5.8 mm
Fiber-optic head design	Smooth sleeve, Long end sleeve
Fiber arrangement	Multi-fiber – fiber bundle
Core structure	Multi-fiber – fiber bundle
Angle of dispersion < 60°	No
Compatibility with infrared light (1,450 nm)	Yes ¹⁾
Diameter/thread size from 2 mm taper	≥ 4 mm
Length of taper	≥ 11.4 mm
Diameter of taper	≥ 4 mm
Highly flexible/elastic fibers (bend radius 1–4 mm)	No
Adapter end sleeves required	No
Angle of dispersion	60°
Integrated lens	No
Compatibility tip adapters	No
Special features	Fibre-optic connection sleeves made of metal

¹⁾ Reduced sensing ranges possible when using a fiber-optic amplifier with infrared light.

Mechanics/electronics

Bend radius, fibre-optic cable	20 mm
Ambient operating temperature	-10 °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 WLL180T

Operating mode 16 µs	50 mm
Operating mode 70 µs	140 mm
Operating mode 250 µs	240 mm
Operating mode 2 ms	300 mm
Operating mode 8 ms	310 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light

Sensing ranges with GLL170

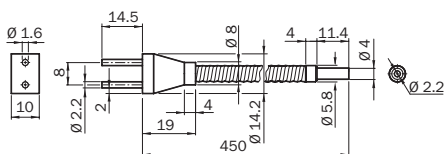
Operating mode 250 µs	93 mm
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Sensing ranges with GLL170T

Operating mode 50 µs	130 mm
Operating mode 250 µs	242 mm

Dimensional drawing (Dimensions in mm (inch))

LL3-LT31450



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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