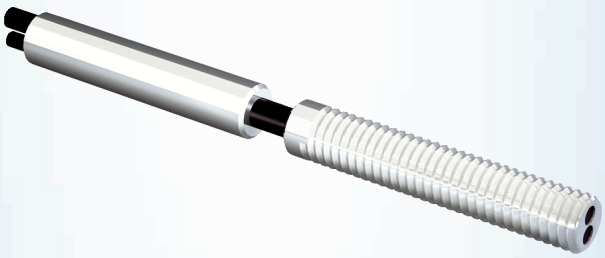
Online data sheet



LL3-DK21

LL3

FIBER-OPTIC SENSORS AND FIBERS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
LL3-DK21	5313023

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	500 mm
Fiber material	Polymethylmethacrylat (PMMA)
Jacket material	Polyethylen (PE)
Fiber head material	Stainless steel [1]
Outer diameter, fiber-optic cable connection	1.3 mm
Fiber-optic cable cuttable	✓ [2]
Thread size	M3
Fiber-optic head design	Threaded sleeve
Fiber arrangement	Coaxial arrangement
Core structure	S: Ø 0,25 mm, R: 10 x Ø 0,125 mm [3] Coaxial arrangement
Bend radius, fibre-optic cable	15 mm
Angle of dispersion < 60°	No
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	60°
Integrated lens	No
Minimal object diameter	0.013 mm [4]
Special features	Coaxial construction for exact switching, compact head
Included with delivery	Mounting, 2 x M3 hexagon nut, 2 x washer
Compatibility tip adapters	Yes

[1] Stainless steel.
[2] FC fiber optic cable cutter included in delivery.
[3] C = Coaxial, S = Sender, E = Receiver.
[4] Minimum detectable object was determined at optimum measuring distance and optimum setting.

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
ETIM 5.0	EC002651
ETIM 6.0	EC002651
UNSPSC 16.0901	39121528

Sensing ranges with WLL180T

Operating mode 16 µs	14 mm
Operating mode 70 µs	45 mm
Operating mode 250 µs	75 mm
Operating mode 2 ms	135 mm
Operating mode 8 ms	200 mm

Sensing ranges with GLL170

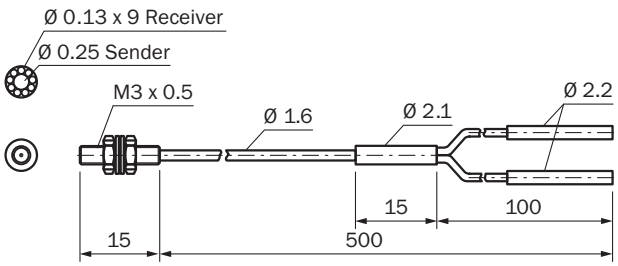
Operating mode 250 µs	70 mm

Sensing ranges with GLL170T

Operating mode 50 µs	20 mm
Operating mode 250 µs	40 mm

Dimensional drawing (Dimensions in mm (inch))

LL3-DK21



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