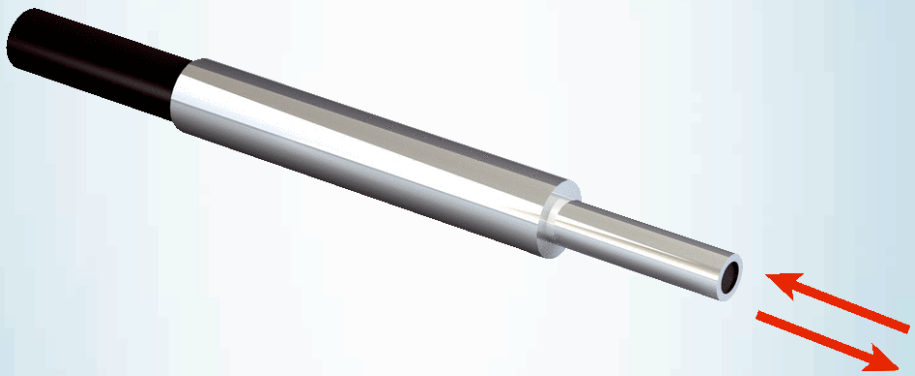
Data sheet

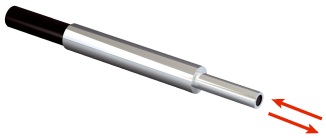


LL3-DK22

Fiber-optic cables

FIBERS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
LL3-DK22	5313029

Other models and accessories ➜ www.sick.com/Fiber-optic_cables

Detailed technical data

Features

Device type	Fiber-optic cables
Functional principle	Proximity system
Fiber-optic head design	Smooth sleeve
Application	Standard
Compatible fiber-optic amplifiers	WLL80, WLL180, GLL170(T)
Sensing range max.	Depending on the fiber optic amplifier used
Minimal object diameter	0.015 mm [1]
Optical fiber head	
Compatibility tip adapters	No
Optical fiber	
Compatibility with infrared light	No
Adapter end sleeves required	No

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

Mechanics

Optical fiber head	
Light emission	Axial
Smooth sleeve diameter	2.5 mm
Optical fiber taper diameter	≥ 1.5 mm
Optical fiber taper length after 2 mm	≥ 6 mm
Optical fiber	
Fiber length	500 mm
Bending radius	15 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	2.2 mm
Fiber arrangement	Coaxial
Core structure	S: Ø 0,5 mm, R: 9 x Ø 0,25 mm [1] Coaxial
Material	
Optical fiber head	Stainless steel
Sheath	Polyethylen (PE)
Fibers	Polymethylmethacrylat (PMMA)

[1] C = Coaxial, S = Sender, E = Receiver.

Weight	8 g

[1] C = Coaxial, S = Sender, E = Receiver.

Ambient data

Ambient operating temperature	–40 °C ... +70 °C

Sensing ranges with WLL180T

Operating mode 16 µs	40 mm
Operating mode 70 µs	135 mm
Operating mode 250 µs	200 mm
Operating mode 2 ms	400 mm
Operating mode 8 ms	620 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light

Sensing ranges with GLL170

Operating mode 250 µs	70 mm

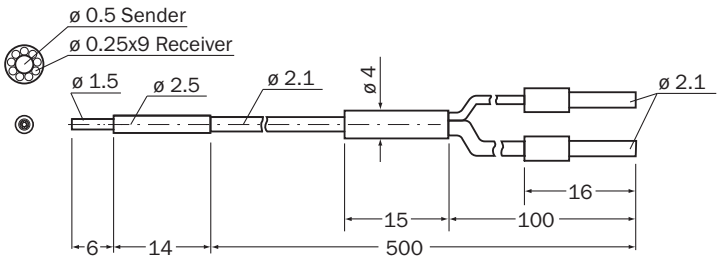
Sensing ranges with GLL170T

Operating mode 50 µs	70 mm
Operating mode 250 µs	120 mm

Classifications

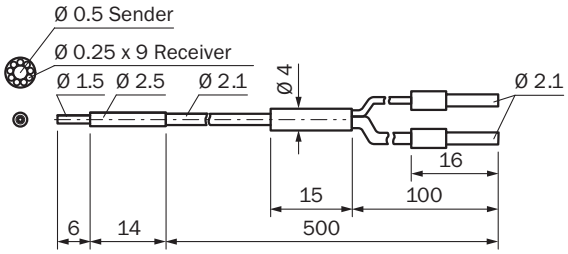
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ECLASS 6.2	27270905
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ECLASS 8.1	27270905
ECLASS 9.0	27270905
ECLASS 10.0	27270905
ECLASS 11.0	27270905
ECLASS 12.0	27270905
ETIM 5.0	EC002651
ETIM 6.0	EC002651
ETIM 7.0	EC002651
ETIM 8.0	EC002651
UNSPSC 16.0901	39121528

Dimensional drawing



Dimensions in mm (inch)

Dimensional drawing



Dimensions in mm (inch)

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.”

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Contacts and other locations –www.sick.com