

SICK

LL3-DL04

Fiber-optic cables

FIBER-OPTIC SENSORS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
LL3-DL04	1068063

Illustration may differ

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	Special design	
Application	Standard	
Compatible fiber-optic amplifiers	GLL70, WLL80, WLL180, GLL170(T)	
Sensing range max.	Depending on the fiber optic amplifier used	
Optical fiber head	Angle of dispersion	60°
	Integrated lens	No
	Compatibility tip adapters	No
Optical fiber	Compatibility with infrared light	Yes ¹⁾
	Adapter end sleeves required	No

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

Mechanics

Optical fiber head	Light emission	Axial
	Thread diameter (housing)	M4
Optical fiber	Fiber length	3,500 mm
	Bending radius	25 mm
	Outside diameter, optical fiber cable connection	2.2 mm
	Fiber arrangement	Multi-fiber
	Core structure	Multi-fiber
Material	Optical fiber head	Stainless steel
	Sheath	Stainless steel
	Fibers	Glass
Weight		15 g

Classifications

ECLASS 5.0	27270905
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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

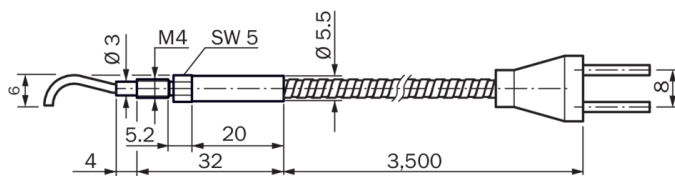
Sensing ranges with GLL170

Operating mode 250 µs	45 mm
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Sensing ranges with GLL170T

Operating mode 50 µs	31 mm
Operating mode 250 µs	58 mm

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.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com