

LL3-LM361000 LL3

FIBERS





Ordering information

Туре	Part no.
LL3-LM361000	2073494

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

Illustration may differ

Detailed technical data

Features

Detection principle Fibiers For fiber-optic sensor GLL170(T), WLL180T Fiber length 1,000 mm Fiber material Glass Jacket material Chrome-plated metal coil Outer diameter, fiber-optic cable connection 2.2 mm Fiber arrangement Multi-fiber – linear arrangement Core structure Multi-fiber – linear arrangement Angle of dispersion < 60°		
For fiber-optic sensor Fiber length 1,000 mm Fiber material Jacket material Polyvinylchlorid (PVC) Fiber head material Outer diameter, fiber-optic cable connection Fiber-optic head design Filat type, 90° deflection Fiber arrangement Multi-fiber - linear arrangement Core structure Bend radius, fibre-optic cable 20 mm Angle of dispersion < 60° No Compatibility with infrared light (1,450 nm) Highly flexible/elastic fibers (bend radius 1-4 mm) Adapter end sleeves required No Angle of dispersion 60° Integrated lens No Minimal object diameter J.05 mm	Device type	Fibers
Fiber length Fiber material Jacket material Jacket material Polyvinylchlorid (PVC) Fiber head material Outer diameter, fiber-optic cable connection Fiber-optic head design Filat type, 90° deflection Fiber arrangement Multi-fiber – linear arrangement Core structure Bend radius, fibre-optic cable Angle of dispersion < 60° Compatibility with infrared light (1,450 nm) 1-d mm) Adapter end sleeves required Angle of dispersion 60° Angle of dispersion 60° No Angle of dispersion Angle of dispersion 1-d mm) Adapter end sleeves required No Angle of dispersion 1-to °C +60° °C No Angle of dispersion 1-to °C +60° °C No Angle of dispersion 1-to °C +60° °C Angle of dispersion 1-t	Detection principle	Proximity system (consisting of a sender and a receiver)
Fiber material Jacket material Polyvinylchlorid (PVC) Fiber head material Chrome-plated metal coil Outer diameter, fiber-optic cable connection Fiber-optic head design Flat type, 90° deflection Fiber arrangement Multi-fiber – linear arrangement Core structure Multi-fiber – linear arrangement Bend radius, fibre-optic cable Angle of dispersion < 60° No Compatibility with infrared light (1,450 nm) Yes Ambient operating temperature Highly flexible/elastic fibers (bend radius 1-4 nm) Adapter end sleeves required Angle of dispersion Angle of dispersion No Angle of dispersion No Angle of dispersion No One	For fiber-optic sensor	GLL170(T), WLL180T
Jacket material Polyvinylchlorid (PVC) Fiber head material Chrome-plated metal coil Outer diameter, fiber-optic cable connection 2.2 mm Fiber-optic head design Flat type, 90° deflection Fiber arrangement Multi-fiber – linear arrangement Core structure Multi-fiber – linear arrangement Bend radius, fibre-optic cable 20 mm Angle of dispersion < 60°	Fiber length	1,000 mm
Fiber head material Outer diameter, fiber-optic cable connection Fiber-optic head design Filat type, 90° deflection Fiber arrangement Multi-fiber – linear arrangement Core structure Bend radius, fibre-optic cable Angle of dispersion < 60° Compatibility with infrared light (1,450 nm) Ambient operating temperature Highly flexible/elastic fibers (bend radius 1-4 mm) Adapter end sleeves required Angle of dispersion flor No No No No No No No No No	Fiber material	Glass
Outer diameter, fiber-optic cable connection 2.2 mm Fiber-optic head design Flat type, 90° deflection Fiber arrangement Multi-fiber - linear arrangement Core structure Multi-fiber - linear arrangement Bend radius, fibre-optic cable 20 mm Angle of dispersion < 60° No Compatibility with infrared light (1,450 nm) Yes Ambient operating temperature -10 °C +60 °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 0.5 mm	Jacket material	Polyvinylchlorid (PVC)
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Fiber arrangement Core structure Multi-fiber – linear arrangement Bend radius, fibre-optic cable Angle of dispersion < 60° Compatibility with infrared light (1,450 nm) Ambient operating temperature Highly flexible/elastic fibers (bend radius 1-4 mm) Adapter end sleeves required Angle of dispersion floo° Integrated lens Multi-fiber – linear arrangement Multi-fiber – linear arrangement Angle of os No No No Osmm Minimal object diameter Multi-fiber – linear arrangement Multi-fiber – linear arrangement Multi-fiber – linear arrangement Angle of dispersion No	•	2.2 mm
Core structure Bend radius, fibre-optic cable Angle of dispersion < 60° No Compatibility with infrared light (1,450 nm) Ambient operating temperature Highly flexible/elastic fibers (bend radius 1-4 mm) Adapter end sleeves required Angle of dispersion Integrated lens Multi-fiber - linear arrangement 20 mm No Angle of control of the contr	Fiber-optic head design	Flat type, 90° deflection
Bend radius, fibre-optic cable Angle of dispersion < 60° No Compatibility with infrared light (1,450 nm) Ambient operating temperature -10°C+60°C Highly flexible/elastic fibers (bend radius 1-4 mm) Adapter end sleeves required No Angle of dispersion Integrated lens No Minimal object diameter 20 mm No Yes -10°C+60°C No O.5 mm	Fiber arrangement	Multi-fiber – linear arrangement
Angle of dispersion < 60 ° No Compatibility with infrared light (1,450 nm) Yes Ambient operating temperature -10 °C +60 °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 0.5 mm	Core structure	Multi-fiber – linear arrangement
Compatibility with infrared light (1,450 nm) Ambient operating temperature -10 °C +60 °C Highly flexible/elastic fibers (bend radius 1-4 mm) Adapter end sleeves required No Angle of dispersion Integrated lens No Minimal object diameter Yes No No 0.5 mm	Bend radius, fibre-optic cable	20 mm
Ambient operating temperature -10 °C +60 °C Highly flexible/elastic fibers (bend radius 1-4 mm) Adapter end sleeves required Angle of dispersion Integrated lens No Minimal object diameter -10 °C +60 °C No No 0.5 mm	Angle of dispersion < 60 °	No
Highly flexible/elastic fibers (bend radius 1-4 mm) Adapter end sleeves required Angle of dispersion Integrated lens No Minimal object diameter No 0.5 mm	Compatibility with infrared light (1,450 nm)	Yes
1-4 mm) Adapter end sleeves required No Angle of dispersion Integrated lens No Minimal object diameter No 0.5 mm	Ambient operating temperature	-10 °C +60 °C
Angle of dispersion 60° Integrated lens No Minimal object diameter 0.5 mm		No
Integrated lens No Minimal object diameter 0.5 mm	Adapter end sleeves required	No
Minimal object diameter 0.5 mm	Angle of dispersion	60°
·	Integrated lens	No
Compatibility tip adapters No	Minimal object diameter	0.5 mm
	Compatibility tip adapters	No

Mechanics/electronics

Bend radius, fibre-optic cable	20 mm
Ambient operating temperature	-10 °C +60 °C

Classifications

ECI@ss 5.0	27270905
ECI@ss 5.1.4	27270905
ECI@ss 6.0	27270905
ECI@ss 6.2	27270905

ECI@ss 7.0	27270905
ECI@ss 8.0	27270905
ECI@ss 8.1	27270905
ECI@ss 9.0	27270905
ECI@ss 10.0	27270905
ECI@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	40 mm
Operating mode 70 µs	130 mm
Operating mode 250 µs	160 mm
Operating mode 2 ms	180 mm
Operating mode 8 ms	190 mm

Sensing ranges with GLL170

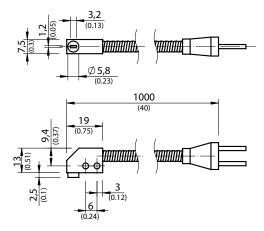
Operating mode 250 µs	95 mm
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Sensing ranges with GLL170T

Operating mode 50 µs	195 mm
Operating mode 250 µs	329 mm

Dimensional drawing (Dimensions in mm (inch))

LL3-LM361000



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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.

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