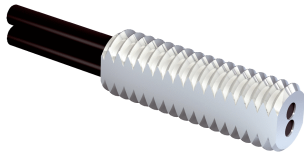


# LL3-DM01

LL3

FIBERS

**SICK**  
Sensor Intelligence.



## Ordering information

Type	Part no.
LL3-DM01	5308071

Other models and accessories → [www.sick.com/LL3](http://www.sick.com/LL3)

## Detailed technical data

## Features

<b>Device type</b>	Fibers
<b>Detection principle</b>	Proximity system
<b>For fiber-optic sensor</b>	GLL170(T), WLL180T
<b>Fiber length</b>	2,000 mm
<b>Fiber material</b>	Polymethylmethacrylat (PMMA)
<b>Jacket material</b>	Polyethylen (PE)
<b>Fiber head material</b>	Stainless steel <sup>1)</sup>
<b>Outer diameter, fiber-optic cable connection</b>	1.3 mm
<b>Fiber-optic cable cuttable</b>	✓ <sup>2)</sup>
<b>Thread size</b>	M4
<b>Fiber-optic head design</b>	Threaded sleeve
<b>Fiber arrangement</b>	Monofiber
<b>Core structure</b>	2 x Ø 1,0 mm <sup>3)</sup> Monofiber
<b>Bend radius, fibre-optic cable</b>	25 mm
<b>Angle of dispersion &lt; 60°</b>	No
<b>Compatibility with infrared light (1,450 nm)</b>	No
<b>Ambient operating temperature</b>	-40 °C ... +70 °C
<b>Highly flexible/elastic fibers (bend radius 1-4 mm)</b>	No
<b>Adapter end sleeves required</b>	Yes
<b>Angle of dispersion</b>	60°
<b>Integrated lens</b>	No
<b>Minimal object diameter</b>	0.0015 mm <sup>4)</sup>
<b>Included with delivery</b>	Mounting, 2 x M4 hexagon nut, 2 x washer, adapter sleeves, BF-WLL160-13 (1.3 mm) adapter sleeves, FC fiber cutter (5304141)
<b>Compatibility tip adapters</b>	No
<b>Special features</b>	Standard, compact head and end sleeve, large sensing range

<sup>1)</sup> Stainless steel.

<sup>2)</sup> FC fiber optic cable cutter included in delivery.

<sup>3)</sup> C = Coaxial, S = Sender, E = Receiver.

<sup>4)</sup> Minimum detectable object was determined at optimum measuring distance and optimum setting.

Mechanics/electronics

<b>Bend radius, fibre-optic cable</b>	25 mm
<b>Ambient operating temperature</b>	-40 °C ... +70 °C

Classifications

<b>ECI@ss 5.0</b>	27270905
<b>ECI@ss 5.1.4</b>	27270905
<b>ECI@ss 6.0</b>	27270905
<b>ECI@ss 6.2</b>	27270905
<b>ECI@ss 7.0</b>	27270905
<b>ECI@ss 8.0</b>	27270905
<b>ECI@ss 8.1</b>	27270905
<b>ECI@ss 9.0</b>	27270905
<b>ETIM 5.0</b>	EC002651
<b>ETIM 6.0</b>	EC002651
<b>UNSPSC 16.0901</b>	39121528

Sensing ranges with WLL180T

<b>Operating mode 16 µs</b>	75 mm
<b>Operating mode 70 µs</b>	255 mm
<b>Operating mode 250 µs</b>	420 mm
<b>Operating mode 2 ms</b>	800 mm
<b>Operating mode 8 ms</b>	1,300 mm

Sensing ranges with GLL170

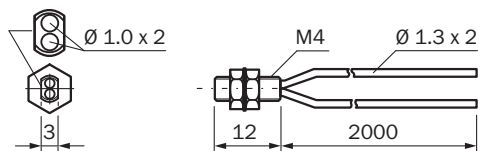
<b>Operating mode 250 µs</b>	170 mm
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Sensing ranges with GLL170T

<b>Operating mode 50 µs</b>	130 mm
<b>Operating mode 250 µs</b>	240 mm

**Dimensional drawing** (Dimensions in mm (inch))

LL3-DM01



## 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](http://www.sick.com)