

# LL3-DB06

LL3

FIBERS

**SICK**  
Sensor Intelligence.



## Ordering information

Type	Part no.
LL3-DB06	5326006

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

## Detailed technical data

### Features

<b>Device type</b>	Fibers, fiber suitable for WLL260
<b>Functional principle</b>	Proximity system
<b>For fiber-optic sensor</b>	GLL170(T), WLL180, WLL24 Ex, WLL80
<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
<b>Outer diameter, fiber-optic cable connection</b>	2.2 mm
<b>Fiber-optic cable cuttable</b>	✓
<b>Thread diameter (housing)</b>	M6
<b>Fiber-optic head design</b>	Threaded sleeve, Long end sleeve, Bendable sleeve
<b>Fiber arrangement</b>	Monofiber
<b>Core structure</b>	2 x Ø 1,0 mm Monofiber
<b>Angle of dispersion &lt; 60°</b>	No
<b>Compatibility with infrared light (1,450 nm)</b>	No
<b>Diameter/thread size from 2 mm taper</b>	≥ 2.5 mm
<b>Length of taper</b>	≥ 35 mm
<b>Diameter of taper</b>	≥ 2.5 mm
<b>Highly flexible/elastic fibers (bend radius 1–4 mm)</b>	No
<b>Adapter end sleeves required</b>	No
<b>Angle of dispersion</b>	60°
<b>Integrated lens</b>	No
<b>Minimum bend radius of end sleeve</b>	10 mm
<b>Minimal object diameter</b>	0.02 mm <sup>1)</sup>
<b>Included with delivery</b>	Mounting, 2 x M6 hexagon nut, 1 x washer, FC fiber cutter (5304141)
<b>Compatibility tip adapters</b>	No

<sup>1)</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>Bend radius, end sleeve</b>	10 mm

<b>Ambient operating temperature</b>	-40 °C ... +60 °C
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## Classifications

<b>ECLASS 5.0</b>	27270905
<b>ECLASS 5.1.4</b>	27270905
<b>ECLASS 6.0</b>	27270905
<b>ECLASS 6.2</b>	27270905
<b>ECLASS 7.0</b>	27270905
<b>ECLASS 8.0</b>	27270905
<b>ECLASS 8.1</b>	27270905
<b>ECLASS 9.0</b>	27270905
<b>ECLASS 10.0</b>	27270905
<b>ECLASS 11.0</b>	27270905
<b>ECLASS 12.0</b>	27270905
<b>ETIM 5.0</b>	EC002651
<b>ETIM 6.0</b>	EC002651
<b>ETIM 7.0</b>	EC002651
<b>ETIM 8.0</b>	EC002651
<b>UNSPSC 16.0901</b>	39121528

## Sensing ranges with WLL80

<b>Operating mode 16 µs</b>	120 mm
<b>Operating mode 70 µs</b>	300 mm
<b>Operating mode 250 µs</b>	500 mm
<b>Operating mode 500 µs</b>	600 mm
<b>Operating mode 1 ms</b>	700 mm
<b>Operating mode 2 ms</b>	800 mm
<b>Operating mode 8 ms</b>	1,250 mm

## Sensing ranges with WLL180T

<b>Operating mode 16 µs</b>	60 mm
<b>Operating mode 70 µs</b>	210 mm
<b>Operating mode 250 µs</b>	360 mm
<b>Operating mode 2 ms</b>	700 mm
<b>Operating mode 8 ms</b>	760 mm
<b>Note</b>	Sensing ranges related to fiber-optic sensors with type of light: visible red light

## Sensing ranges with GLL170

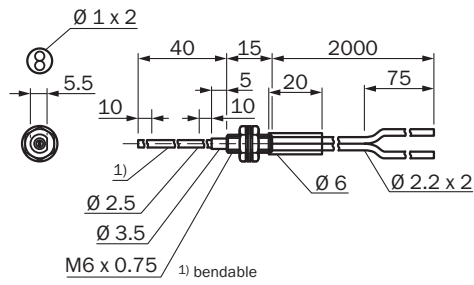
<b>Operating mode 250 µs</b>	210 mm
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## Sensing ranges with GLL170T

<b>Operating mode 50 µs</b>	140 mm
<b>Operating mode 250 µs</b>	250 mm


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

LL3-DB06



### Recommended accessories

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

	Brief description	Type	Part no.
Device protection (mechanical)			
	Metal protection hose for LL3-Fibers with M6 threaded head; length 1000 mm, stainless steel, 1 pieces	BEF-LL3M61000	5331291
	Metal protection hose for LL3-Fibers with M6 threaded head; length 500 mm, stainless steel, 1 pieces	BEF-LL3M6500	5331290

## 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)