

LL3-DB03

LL3

**FIBERS** 





### Ordering information

Туре	Part no.
LL3-DB03	5313021

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

#### Detailed technical data

#### **Features**

Fibers
Proximity system
GLL170(T), WLL180, WLL24 Ex, WLL80
2,000 mm
Polymethylmethacrylat (PMMA)
Polyethylen (PE)
Stainless steel
2.2 mm
✓
M6
Threaded sleeve
Coaxial arrangement
S: Ø 1 mm, R: 16 x Ø 0,25 mm $^{1)}$ Coaxial arrangement
No
No
≥ 2.5 mm
≥ 3 mm
No
No
60°
No
0.015 mm <sup>2)</sup>
Mounting, 2 x M6 hexagon nut, 2 x washer, FC fiber cutter (5304141)
No
Coaxial construction for exact switching

 $<sup>^{1)}</sup>$  C = Coaxial, S = Sender, E = Receiver.

### Mechanics/electronics

Bend radius, fibre-optic cable	25 mm
Ambient operating temperature	-40 °C +70 °C

<sup>&</sup>lt;sup>2)</sup> Minimum detectable object was determined at optimum measuring distance and optimum setting.

### Classifications

ECLASS 5.0	27270905
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 WLL80

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

### Sensing ranges with WLL180T

Operating mode 16 µs	90 mm
Operating mode 70 μs	300 mm
Operating mode 250 µs	500 mm
Operating mode 2 ms	900 mm
Operating mode 8 ms	1,350 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light

# Sensing ranges with GLL170

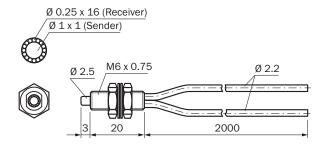
Operating mode 250 µs	160 mm

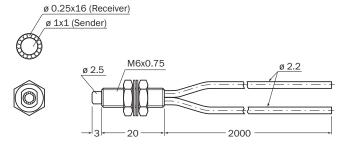
# Sensing ranges with GLL170T

Operating mode 50 µs	160 mm
Operating mode 250 µs	300 mm

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

#### LL3-DB03





#### Recommended accessories

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

	Brief description	Туре	Part no.
Device protec	tion (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

