



SICK Sensor Intelligence.

FIBERS

LL3-DB01-30 | Fiber-optic cables

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Ordering information

	Туре	Part no.
	LL3-DB01-30	5324662

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	Threaded sleeve
Application	Standard
Compatible fiber-optic amplifiers	WLL80, WLL180, GLL170(T), WLL24 Ex
Sensing range max.	Depending on the fiber optic amplifier used
Minimal object diameter	0.015 mm ¹⁾
Optical fiber head	
Angle of dispersion	60°
Integrated lens	No
Compatibility tip adapters	No
Optical fiber	
Compatibility with infrared light	No
Optical fiber cable can be shortened	✓
Adapter end sleeves required	No
Included with delivery	Mounting, 2 x M6 hexagon nut, 2 x washer, FC fiber cutter (5304141)

 $^{1)}\ensuremath{\mathsf{Minimum}}$ detectable object was determined at optimum measuring distance and optimum setting.

Mechanics

Optical fiber head	
Light emission	Axial
Thread diameter (housing)	M6
Optical fiber taper diameter	≥ 2.8 mm
Optical fiber taper length after 2 mm	≥ 5 mm
Optical fiber	
Fiber length	30,000 mm
Bending radius	25 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	2.2 mm
Fiber arrangement	Coaxial
Core structure	S: Ø 1 mm, R: 16 x Ø 0,25 mm Coaxial
Material	
Optical fiber head	Stainless steel

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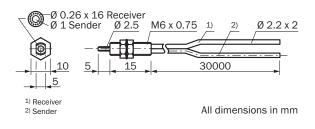
Sheath			
Fibers			
Weight	25 g		
Ambient data			
Ambient operating temperature	-40 °C +70 °C		
Classifications			
ECLASS 5.0	27270905		
ECLASS 5.1.4	27270905		
ECLASS 6.0	27270905		
ECLASS 6.2	27270905		
ECLASS 7.0	27270905		
ECLASS 8.0	27270905		
ECLASS 8.1	27270905		
ECLASS 9.0	27270905		
ECLASS 10.0	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 WLL180T			
Operating mode 16 µs	35 mm		
Operating mode 70 µs	98 mm		
Operating mode 250 µs	175 mm		
Operating mode 2 ms	350 mm		
Operating mode 8 ms	525 mm		
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light		
Sensing ranges with GLL170			
Operating mode 250 µs	5 mm		
Sensing ranges with GLL170T			
Operating mode 50 µs	16 mm		
Operating mode 250 µs	40 mm		

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Dimensional drawing (Dimensions in mm (inch))

LL3-DB01-30



Recommended accessories

Other models and accessories -> www.sick.com/Fiber-optic_cables

	Brief description	Туре	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



Online data sheet

