



# LL3-DF01

Fiber-optic cables

FIBER-OPTIC SENSORS

**SICK**  
Sensor Intelligence.



### Ordering information

Type	part no.
LL3-DF01	5308094

Other models and accessories → [www.sick.com/Fiber-optic\\_cables](http://www.sick.com/Fiber-optic_cables)

### Detailed technical data

#### Features

<b>Device type</b>	Fiber-optic cables
<b>Functional principle</b>	Proximity system
<b>Application</b>	Standard
<b>Special features</b>	Special applications: level switch for clear liquids, chemically resistant
<b>Compatible fiber-optic amplifiers</b>	GLL70, WLL80, WLL180, GLL170(T)
<b>Sensing range max.</b>	Depending on the fiber optic amplifier used
<b>Optical fiber head</b>	
Compatibility tip adapters	No
<b>Optical fiber</b>	
Compatibility with infrared light	No
Adapter end sleeves required	Yes

#### Mechanics

<b>Optical fiber head</b>		
Light emission	Axial	
<b>Optical fiber</b>		
Fiber length	2,000 mm	
Bending radius	60 mm	
Dynamic flexibility (robotics)	No	
Outside diameter, optical fiber cable connection	2.2 mm	
Fiber arrangement	Singlefiber	
Core structure	2 x Ø 1,0 mm <sup>1)</sup> Singlefiber	
<b>Material</b>		
Optical fiber head	Polytetrafluorethylen (PTFE)	
Sheath	Polytetrafluorethylen (PTFE)	
Fibers	Polymethylmethacrylat (PMMA)	
<b>Weight</b>	72 g	

<sup>1)</sup> C = Coaxial, S = Sender, E = Receiver.

#### Ambient data

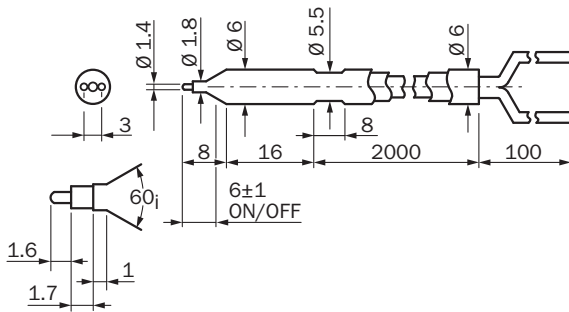
<b>Ambient operating temperature</b>	-40 °C ... +70 °C
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#### Classifications

<b>ECLASS 5.0</b>	27270905
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<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

Dimensional drawing



For transparent liquids

Dimensions in mm (inch)

## 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)