

LL3-DR07

Fiber-optic cables

FIBER-OPTIC SENSORS





Ordering information

Туре	part no.
LL3-DR07	5326007

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

Detailed technical data

Features

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Device type	Fiber-optic cables
Functional principle	Proximity system
Fiber-optic head design	Smooth sleeve, Long end sleeve
Application	Standard
Compatible fiber-optic amplifiers	GLL70, WLL80, WLL180, GLL170(T)
Sensing range max.	120 mm (Sensing range of WLL80 at 8 ms)
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

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

Mechanics

Optical fiber head	
Light emission	Axial
Smooth sleeve diameter	3 mm
Optical fiber taper diameter	≥ 0.8 mm
Optical fiber taper length after 2 mm	≥ 80 mm
Optical fiber	
Fiber length	1,000 mm
Bending radius	25 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	2.2 mm
Fiber arrangement	Singlefiber
Core structure	2 x Ø 0,25 mm Singlefiber
Material	
Optical fiber head	Stainless steel
Sheath	Polyethylen (PE)

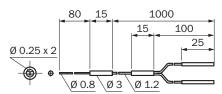
	Deliverable develop and at (DMMA)
Fibers	Polymethylmethacrylat (PMMA) 9 g
	38
Ambient data	
Ambient operating temperature	-40 °C +60 °C
Sensing ranges with GLL70	
Operating mode 50 µs	20 mm
Operating mode 250 µs	55 mm
Operating mode 1 ms	95 mm
Operating mode 4 ms	220 mm
Sensing ranges with WLL80	
Operating mode 16 µs	5 mm
Operating mode 70 µs	15 mm
Operating mode 250 µs	30 mm
Operating mode 500 µs	40 mm
Operating mode 1 ms	45 mm
Operating mode 2 ms	75 mm
Operating mode 8 ms	120 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light
Sensing ranges with WLL180T	
Operating mode 16 µs	5 mm
Operating mode 70 µs	15 mm
Operating mode 250 µs	35 mm
Operating mode 2 ms	65 mm
Operating mode 8 ms	120 mm
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light
Sensing ranges with GLL170	
Operating mode 250 µs	0 mm
Sensing ranges with GLL170T	
Operating mode 50 µs	10 mm
Operating mode 250 μs	20 mm
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

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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

Dimensional drawing LL3-DR07



Dimensions in mm (inch)

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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:

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