

ONLINE DATA SHEET
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fibers
LL3, Fibers, proximity system

LL3-DM02



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Model Name	**> LL3-DM02**
Part No.	**> 5308077**





At a glance

- Quick and easy mounting
- Models with hexagonal flange for trouble-free mounting with only one nut
- Optional tip adapter for a larger detection distance and small objects

Your benefits

- Very large selection of fiber-optic cables with plastic and glass fibers, giving users more application flexibility
- Resistant to damage caused by mechanical and chemical stress, as well as high temperatures
- Standard and customer-specific types
- Simple installation saves time
- For detection of objects, surfaces, leading edges, and fluid levels

Features

For fiber-optic sensor:	WLL160(T), WLL170-2/WLL170T-2, WLL180T, WLL190T-2
Device type:	Fibers
Jacket material:	PE
Core material:	PMMA
Sleeve material:	Stainless steel [1)]
Diameter, connection:	1.3 mm
Mounting sleeve dimension:	M4
Bend radius, fibre-optic cable:	15 mm
Heat resistance:	70 °C
Ambient temperature operation:	-40 °C ... 70 °C
Minimal object diameter:	0.015 mm [2)]
Core structure:	C,S: Ø 0,5 mm, E: 9 x Ø 0,25 mm [3)]
Fiber-optic cable cuttable [4)]:	✓
Thread sleeve:	✓
Sleeve:	-
90° offset:	-
Flat housing:	-
High flexible:	-
Long end sleeve:	-
Array:	-
High temperature:	-
Oil/chemical resistent:	-
Lcd/clear material/semiconductor:	-
Vacuum:	-

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Robotics:	-
Retro-reflective:	-
Liquid level:	-
Special features:	Coaxial construction for exact switching. Compact head
Category fiber-optic cables:	Threaded sleeve
Fiber length:	2,000 mm

[1] Stainless steel [2] Minimum detectable object was determined at optimal measuring distance and optimal setting [3] C = Coaxial, S = Sender, E = Receiver [4] FC fiber optic cable cutter included in delivery

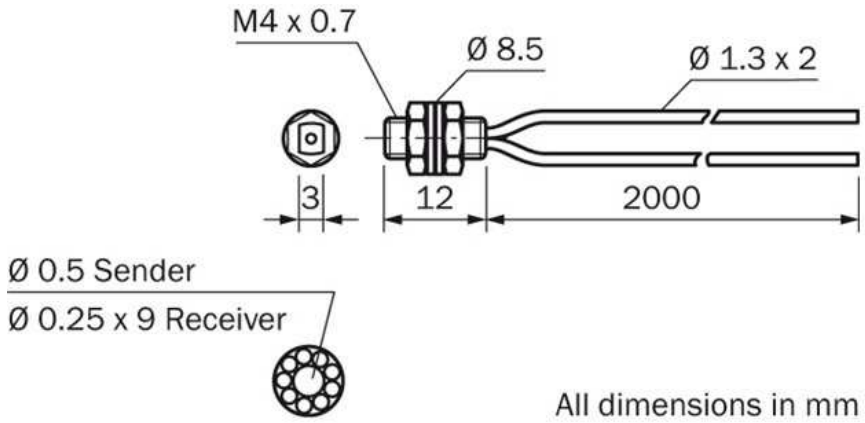
Sensing range with WLL180T

Operating mode 16 µs:	40 mm
Operating mode 70 µs:	130 mm
Operating mode 250 µs:	200 mm
Operating mode 2 ms:	350 mm
Operating mode 8 ms:	600 mm

Sensing range with WLL170-2

Redlight 250 µs:	72 mm
Greenlight 250 µs:	11 mm
Highspeed 50 µs:	22 mm

Dimensional drawing



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