



fibers  
LL3, Fibers, proximity system

LL3-DM03-3



**Model Name** > [LL3-DM03-3](#)  
**Part No.** > [5326721](#)



**At a glance**

- Sensor tip can be positioned closely to the object
- Flexible end sleeve is available as an option
- Extremely narrow access to place of detection

**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 <sup>1)</sup>
Diameter, connection:	1 mm
Mounting sleeve dimension:	M4
Bend radius, fibre-optic cable:	15 mm
Bend radius, end sleeve:	10 mm
Heat resistance:	70 °C
Ambient temperature operation:	-40 °C ... 70 °C
Minimal object diameter:	0.015 mm <sup>2)</sup>
Core structure:	2 x : Ø 0,5 mm <sup>3)</sup>
Fiber-optic cable cuttable <sup>4)</sup> :	✓
Thread sleeve:	-
Sleeve:	-
90° offset:	-
Flat housing:	-
High flexible:	-
Long end sleeve:	✓
Array:	-
High temperature:	-
Oil/chemical resistant:	-
Lcd/clear material/semiconductor:	-

Vacuum:	-
Robotics:	-
Retro-reflective:	-
Liquid level:	-
Special features:	Ideal for small, insufficient objects. Compact head, bendable sleeve
Category fiber-optic cables:	Long end 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**

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Operating mode 16 $\mu$ s:	10 mm
Operating mode 70 $\mu$ s:	25 mm
Operating mode 250 $\mu$ s:	45 mm
Operating mode 2 ms:	90 mm
Operating mode 8 ms:	170 mm

#### **Sensing range with WLL170-2**

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Redlight 250 $\mu$ s:	50 mm
Greenlight 250 $\mu$ s:	8 mm
Highspeed 50 $\mu$ s:	17 mm

**Dimensional drawing**

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