



fibers
LL3, Fibers, proximity system

LL3-DB02



Model Name > [LL3-DB02](#)
Part No. > [5308083](#)



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 ¹⁾
Diameter, connection:	2.2 mm
Mounting sleeve dimension:	M6
Bend radius, fibre-optic cable:	25 mm
Bend radius, end sleeve:	10 mm
Heat resistance:	70 °C
Ambient operating temperature:	-40 °C ... 70 °C
Minimal object diameter:	0.015 mm ²⁾
Core structure:	C,S: Ø 1,0 mm, E: 16 x Ø 0,25 mm ³⁾
Fiber-optic cable cuttable ⁴⁾ :	✓
Thread sleeve:	-
Sleeve:	-
Dimensions end sleeve:	Ø 2.5 mm
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. Standard, bendable sleeve, large sensing range
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

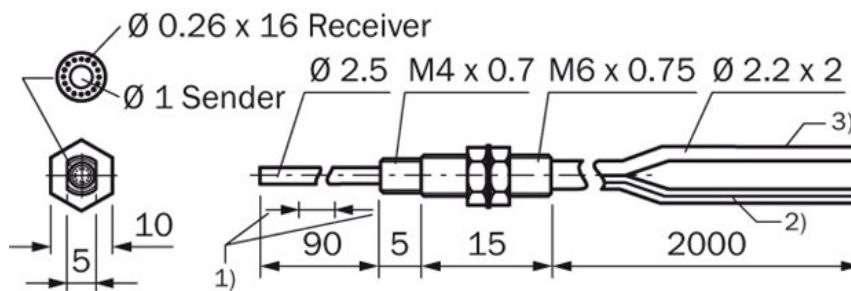
Sensing range with WLL180T

Operating mode 16 µs:	100 mm
Operating mode 70 µs:	350 mm
Operating mode 250 µs:	580 mm
Operating mode 2 ms:	850 mm
Operating mode 8 ms:	1,300 mm

Sensing range with WLL170-2

Redlight 250 µs:	170 mm
Greenlight 250 µs:	42 mm
Highspeed 50 µs:	67 mm

Dimensional drawing



- 1) Flexible end tip, do not bend in this area (10 mm), bend radius R10 mm
 2) Sender (marked blue)
 3) Receiver

All dimensions in mm

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