



fibers
LL3, Fibers, through-beam system

LL3-TB03



Model Name > [LL3-TB03](#)
Part No. > [5308056](#)



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:	M4
Bend radius, fibre-optic cable:	25 mm
Bend radius, end sleeve:	10 mm
Heat resistance:	70 °C
Ambient temperature operation:	-40 °C ... 70 °C
Minimal object diameter:	0.2 mm ²⁾
Core structure:	Ø 1 mm
Fiber-optic cable cuttable ³⁾ :	✓
Thread sleeve:	-
Sleeve:	-
Dimensions end sleeve:	Ø 1.5 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:	Bendable sleeve, ideal for insufficient objects
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) FC fiber optic cable cutter included in delivery

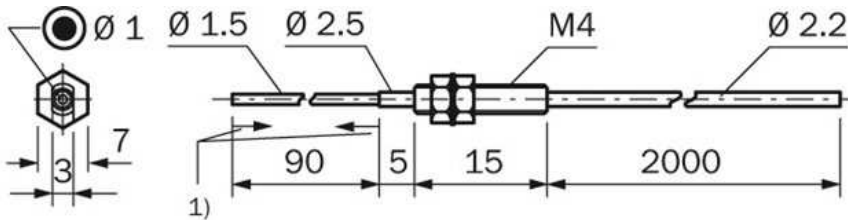
Sensing range with WLL180T

Operating mode 16 μ s:	240 mm
Operating mode 70 μ s:	700 mm
Operating mode 250 μ s:	1,400 mm
Operating mode 2 ms:	2,500 mm
Operating mode 8 ms:	2,900 mm

Sensing range with WLL170-2

Redlight 250 μ s:	470 mm
Greenlight 250 μ s:	132 mm
Highspeed 50 μ s:	165 mm

Dimensional drawing



All dimensions in mm

1) Flexible end tip, do not bend in this area (10 mm), bend radius R10 mm

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