

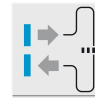


fibers  
LL3, Fibers, through-beam system

LL3-TY02



**Model Name** > LL3-TY02  
**Part No.** > 5308067



**At a glance**

- Sender and receiver fibers are mounted separately
- Detection of measurement object by moving the optical axis between sender and receiver
- Very large sensing ranges
- For accurate positioning
- Stable measuring position
- Optically opaque measurement objects can be detected regardless of their shape, color and material
- Strong light beam

**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:	PTFE
Core material:	PMMA
Sleeve material:	PTFE
Diameter, connection:	6 mm
Mounting sleeve dimension:	Ø 6 mm
Bend radius, fibre-optic cable:	60 mm
Heat resistance:	70 °C
Ambient operating temperature:	-40 °C ... 70 °C
Minimal object diameter:	0.3 mm <sup>1)</sup>
Core structure:	Ø 1 mm
Fiber-optic cable cuttable <sup>2)</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:	Teflon sheathing: chemically resistant, 90° deflection
Category fiber-optic cables:	90° deflection, Resistant to oil/chemicals, PTFE
Fiber length:	2,000 mm

<sup>1)</sup> Minimum detectable object was determined at optimal measuring distance and optimal setting <sup>2)</sup> FC fiber optic cable cutter included in delivery

#### **Sensing range with WLL180T**

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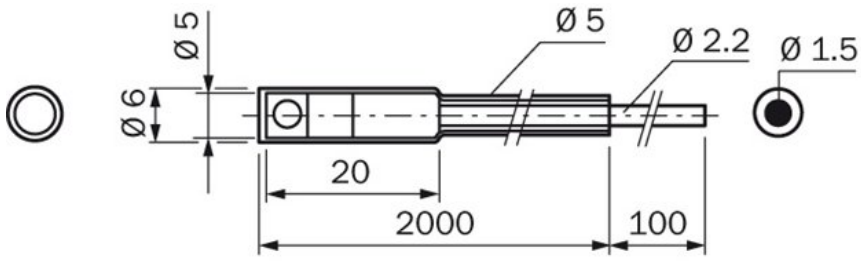
Operating mode 16 µs:	300 mm
Operating mode 70 µs:	1,000 mm
Operating mode 250 µs:	1,300 mm
Operating mode 2 ms:	3,000 mm
Operating mode 8 ms:	4,000 mm

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

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Redlight 250 µs:	620 mm
Greenlight 250 µs:	210 mm
Highspeed 50 µs:	225 mm

Dimensional drawing



All dimensions in mm

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