



fibers
LL3, Fibers, through-beam system

LL3-TR03



Model Name > [LL3-TR03](#)
Part No. > [5308054](#)



At a glance

- For installation at sites with limited space
- The smooth sleeve is simply secured by a setscrew

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 mm
Mounting sleeve dimension:	Ø 1.5 mm
Bend radius, fibre-optic cable:	4 mm
Heat resistance:	70 °C
Ambient temperature operation:	-40 °C ... 70 °C
Minimal object diameter:	0.1 mm ²⁾
Core structure:	4 x Ø 0.25 mm
Fiber-optic cable cuttable ³⁾ :	✓
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:	Flexible fiber-optic cable, extra-thin end sleeve
Category fiber-optic cables:	Flexible fiber-optic cable, Smooth sleeve
Fiber length:	1,000 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

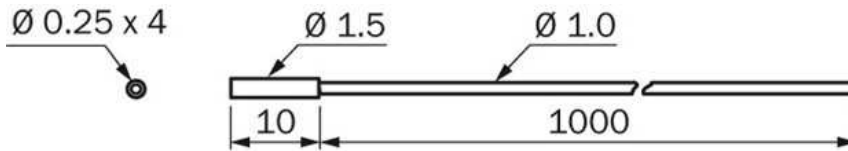
Sensing range with WLL180T

Operating mode 16 μ s:	60 mm
Operating mode 70 μ s:	175 mm
Operating mode 250 μ s:	330 mm
Operating mode 2 ms:	750 mm
Operating mode 8 ms:	1,100 mm

Sensing range with WLL170-2

Redlight 250 μ s:	115 mm
Greenlight 250 μ s:	23 mm
Highspeed 50 μ s:	38 mm

Dimensional drawing



All dimensions in mm

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