



fibers
LL3, Fibers, through-beam system

LL3-TR04



Model Name > [LL3-TR04](#)
Part No. > [5325918](#)



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
Diameter, connection:	2.2 mm
Mounting sleeve dimension:	Ø 4,3 mm
Bend radius, fibre-optic cable:	4 mm
Heat resistance:	60 °C
Ambient temperature operation:	-40 °C ... 60 °C
Minimal object diameter:	0.02 mm ¹⁾
Core structure:	0.265 mm
Fiber-optic cable cuttable:	-
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:	-
Category fiber-optic cables:	Flexible fiber-optic cable, Smooth sleeve
Fiber length:	500 mm

1) Minimum detectable object was determined at optimal measuring distance and optimal setting

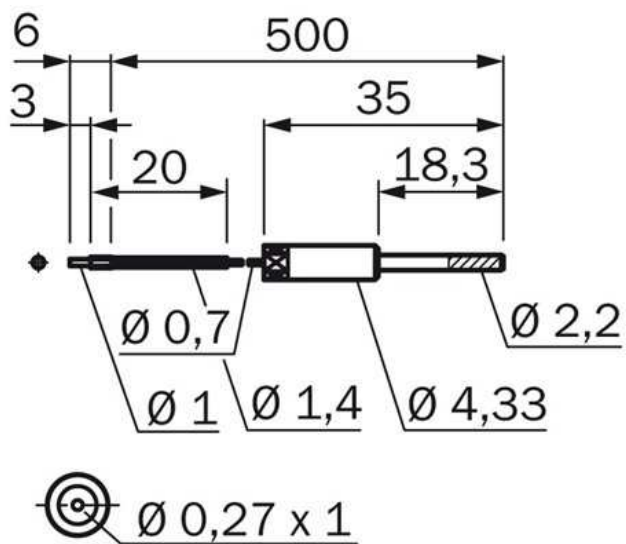
Sensing range with WLL180T

Operating mode 16 μ s:	5 mm
Operating mode 70 μ s:	17 mm
Operating mode 250 μ s:	28 mm
Operating mode 2 ms:	56 mm
Operating mode 8 ms:	60 mm

Sensing range with WLL170-2

Redlight 250 μ s:	12 mm
Greenlight 250 μ s:	5 mm
Highspeed 50 μ s:	5 mm

Dimensional drawing



Alle Maße in mm

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