



fibers
LL3, Fibers, proximity system

LL3-DK22



Model Name > [LL3-DK22](#)
Part No. > [5313029](#)



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:	Ø 2.5 mm
Bend radius, fibre-optic cable:	15 mm
Heat resistance:	70 °C
Ambient operating temperature:	-40 °C ... 70 °C
Minimal object diameter:	0.015 mm ²⁾
Core structure:	C,S: Ø 0,5 mm, E: 9 x Ø 0,25 mm ³⁾
Fiber-optic cable cuttable ⁴⁾ :	-
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:	Ideal for small, insufficient objects. Short, thin end sleeve
Category fiber-optic cables:	Smooth sleeve, Long end sleeve
Fiber length:	500 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

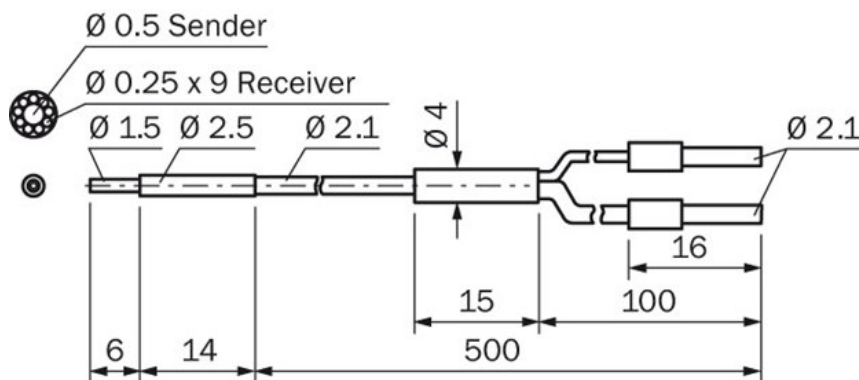
Sensing range with WLL180T

Operating mode 16 μ s:	40 mm
Operating mode 70 μ s:	135 mm
Operating mode 250 μ s:	200 mm
Operating mode 2 ms:	400 mm
Operating mode 8 ms:	620 mm

Sensing range with WLL170-2

Redlight 250 μ s:	72 mm
Greenlight 250 μ s:	12 mm
Highspeed 50 μ s:	22 mm

Dimensional drawing



All dimensions in mm

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