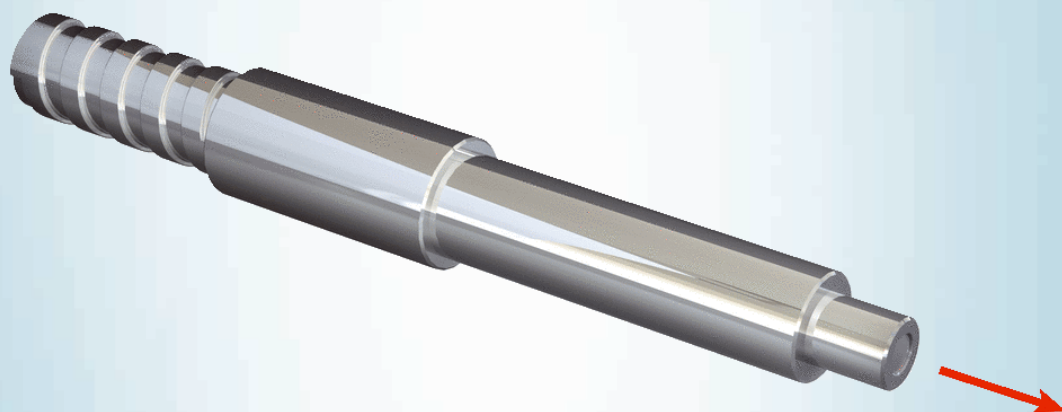


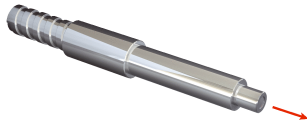


LL3-TN011300

LL3

FIBERS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
LL3-TN011300	5338641

Other models and accessories → www.sick.com/LL3

Detailed technical data

Features

Device type	Fibers
Detection principle	Through-beam system (consisting of a sender and a receiver)
For fiber-optic sensor	GLL170(T), WLL180T, WLL24 Ex
Fiber length	1,300 mm
Fiber head material	Stainless steel
Outer diameter, fiber-optic cable connection	2.2 mm
Thread diameter (housing)	M4
Fiber-optic head design	Threaded sleeve
Fiber arrangement	Multi-fiber – fiber bundle
Core structure	Ø 1.5 mm (multi-fiber) Multi-fiber – fiber bundle
Bend radius, fibre-optic cable	23 mm
Angle of dispersion < 60°	No
Compatibility with infrared light (1,450 nm)	No
Ambient operating temperature	-40 °C ... +250 °C
Application	Vacuum zone, Heat-resistant (≥100 °C)
Diameter/thread size from 2 mm taper	≥ 2.6 mm
Length of taper	≥ 3 mm
Highly flexible/elastic fibers (bend radius 1–4 mm)	No
Adapter end sleeves required	No
Angle of dispersion	60°
Integrated lens	No
Minimal object diameter	0.4 mm ¹⁾
Included with delivery	Fibers (vacuum side), vacuum leadthrough, fibers adapter cable (atmospheric side), mounting material
Items supplied	Fibers (vacuum side), vacuum leadthrough, fibers adapter cable (atmospheric side), mounting material
Compatibility tip adapters	Yes

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

Mechanics/electronics

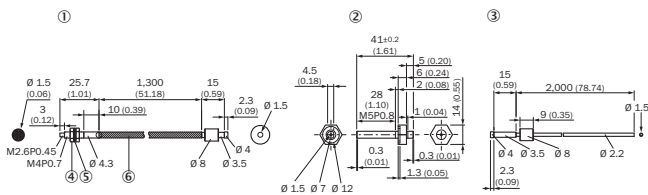
Bend radius, fibre-optic cable	23 mm
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Ambient operating temperature	-40 °C ... +250 °C
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Classifications

ECI@ss 5.0	27270905
ECI@ss 5.1.4	27270905
ECI@ss 6.0	27270905
ECI@ss 6.2	27270905
ECI@ss 7.0	27270905
ECI@ss 8.0	27270905
ECI@ss 8.1	27270905
ECI@ss 9.0	27270905
ECI@ss 10.0	27270905
ECI@ss 11.0	27270905
ETIM 5.0	EC002651
ETIM 6.0	EC002651
ETIM 7.0	EC002651
UNSPSC 16.0901	39121528

Dimensional drawing (Dimensions in mm (inch))



- ① Fibers (vacuum side), jacket material: stainless steel, fiber material: glass, bending radius: 23 mm, ambient operating temperature: -40 °C ... +250 °C
- ② Vacuum leadthrough
- ③ Fibers adapter cable (atmospheric side), jacket material: PE, fiber material: PMMA, bending radius: 40 mm, ambient operating temperature: -55 °C ... +70 °C
- ④ Width across flats 8 mm, thickness 2.3 mm
- ⑤ Toothed lock washer Ø 8,3 mm
- ⑥ Stainless steel protective tube Ø 3.8 mm

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com