



SICK Sensor Intelligence.

**FIBER-OPTIC SENSORS AND FIBERS** 



## Ordering information

Туре	Part no.
LL3-TK77	5313035
Other medels and accessories. Nummicials are (U.S.	

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

## Detailed technical data

Features

Device type	Fibers
Detection principle	Through-beam system
For fiber-optic sensor	GLL170(T), WLL180T, WLL24 Ex
Fiber length	2 m
Fiber material	Polymethylmethacrylat (PMMA)
Jacket material	Polyethylen (PE)
Fiber head material	Copper-zinc alloy (CuZn)
Outer diameter, fiber-optic cable connec- tion	2.2 mm
Fiber-optic cable cuttable	✓ <sup>1)</sup>
Thread size	M4
Fiber-optic head design	Threaded sleeve
Fiber arrangement	Monofiber
Core structure	Ø 1,0 mm Monofiber
Bend radius, fibre-optic cable	2 mm
Angle of dispersion < 60°	No
Compatibility with infrared light (1,450 nm)	No
Ambient operating temperature	-40 °C +70 °C
Application	High flexible (static)
Diameter/thread size from 2 mm taper	≥ 2.6 mm
Length of taper	≥ 3 mm
Highly flexible/elastic fibers (bend radius 1–4 mm)	Yes
Adapter end sleeves required	No
Angle of dispersion	60°
Integrated lens	No
Minimal object diameter	0.2 mm <sup>2)</sup>
Special features	Highly-flexible, standard
Included with delivery	Mounting, 4 x M4 hexagon nut, 4 x washer, FC fiber cutter (5304141)
Compatibility tip adapters	Yes

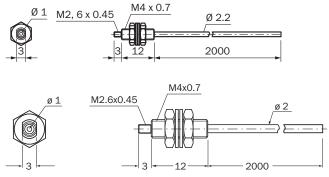
 $^{1)}$  FC fiber optic cable cutter included in delivery.

 $^{\rm 2)}$  Minimum detectable object was determined at optimum measuring distance and optimum setting.

### 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
ETIM 5.0	EC002651
ETIM 6.0	EC002651
UNSPSC 16.0901	39121528
Sensing ranges with WLL180T	
Operating mode 16 µs	220 mm
Operating mode 70 µs	650 mm
Operating mode 250 µs	1,200 mm
Operating mode 2 ms	2,750 mm
Operating mode 8 ms	4,000 mm
Sensing ranges with GLL170	
Operating mode 250 µs	420 mm
Sensing ranges with GLL170T	
Operating mode 50 µs	450 mm
Operating mode 250 µs	760 mm

# Dimensional drawing (Dimensions in mm (inch)) LL3-TK77



# 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



Online data sheet

