OD7000-10061031

OD7000

DISPLACEMENT SENSORS

SICK
Sensor Intelligence.

OD7000-10061031 | OD7000

DISPLACEMENT SENSORS

Ordering information

Type	part no.
OD7000-10061031	6079486

Other models and accessories ➔ www.sick.com/OD7000

Detailed technical data

Features

Measuring range	6.2 mm … 6.8 mm
Measuring range	0.6 mm
Resolution	Axial 0.025 µm Lateral 2 µm
Linearity	± 0.198 µm
Number of measuring channels	1
Measuring frequency	≤ 10 kHz
Emitted beam	
Light source	LED
Special task	Coating thickness measurement
LED risk group	Risk group 1 IEC 62471

Interfaces

Serial	RS-232, RS-422
Data transmission rate	RS-232: max. 1.8 MBaud, RS-422: max. 10 MBaud
Ethernet	TCP/IP
Data transmission rate	100 Mbit/s
Digital input	2
Digital output	
Number	2
Analog output	
Number	2
Type	Current output / voltage output
Current	–10 mA … 10 mA
Voltage	–10 V … 10 V
Trigger input	1

Trigger output	1
Encoder input	3

Electronics

Supply voltage U_B	DC 24 V, ± 10 % [1]
Power consumption	4 W
Warm-up time	30 min
Display	4 status LEDs
Enclosure rating	IP20 (IEC 60529)
Protection class	III (IEC 61140)
Electrical safety	IEC 61010
Connection type	
	Female connector
	Terminal strip
	Terminal strip
	Terminal strip

[1] With separate power supply unit: AC 100 V … 240 V, 50 Hz … 60 Hz.

Mechanics

Dimensions (W x H x D)	95 mm x 106 mm x 95 mm
Weight	550 g
Optical fiber length	3 m

Ambient data

Ambient temperature, operation	0 °C … +50 °C
Ambient temperature, storage	–20 °C … +70 °C
Relative air humidity (non-condensing)	30 % … 75 %
Electromagnetic compatibility (EMC)	Radiated emission: EN 61326-1

Classifications

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ECLASS 5.0	27270801
ECLASS 5.1.4	27270801
ECLASS 6.0	27270801
ECLASS 6.2	27270801
ECLASS 7.0	27270801
ECLASS 8.0	27270801
ECLASS 8.1	27270801
ECLASS 9.0	27270801
ECLASS 10.0	27270801
ECLASS 11.0	27270801
ECLASS 12.0	27270916
ETIM 5.0	EC001825
ETIM 6.0	EC001825
ETIM 7.0	EC001825

ETIM 8.0	EC001825
UNSPSC 16.0901	41111613

Dimensional drawing
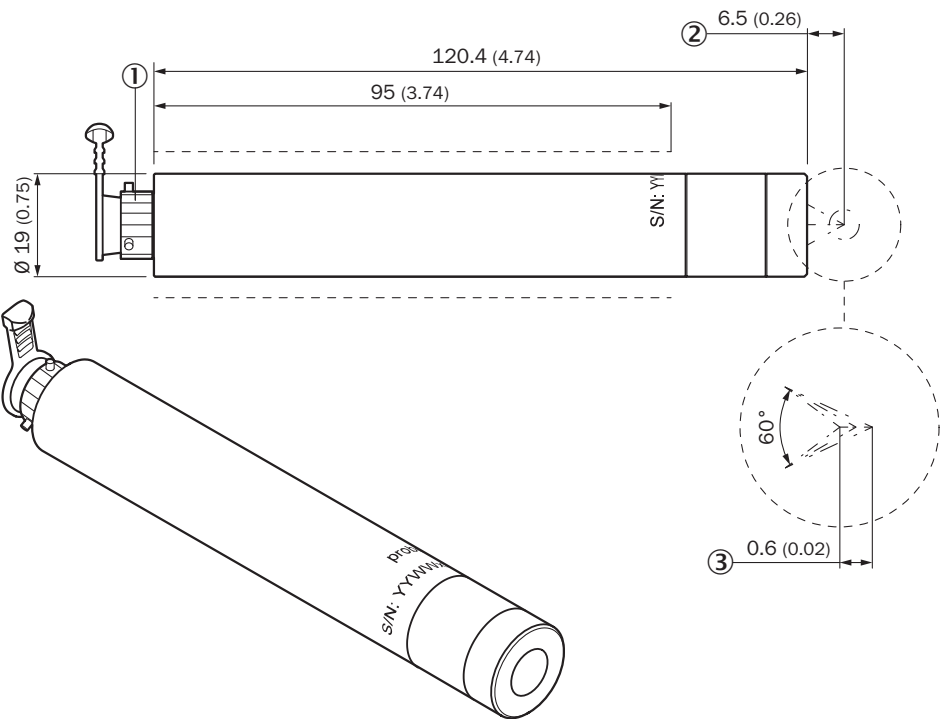
Dimensions in mm (inch)
① Optical fiber connection
② Average measuring distance (typical)
③ measuring range

Dimensional drawing
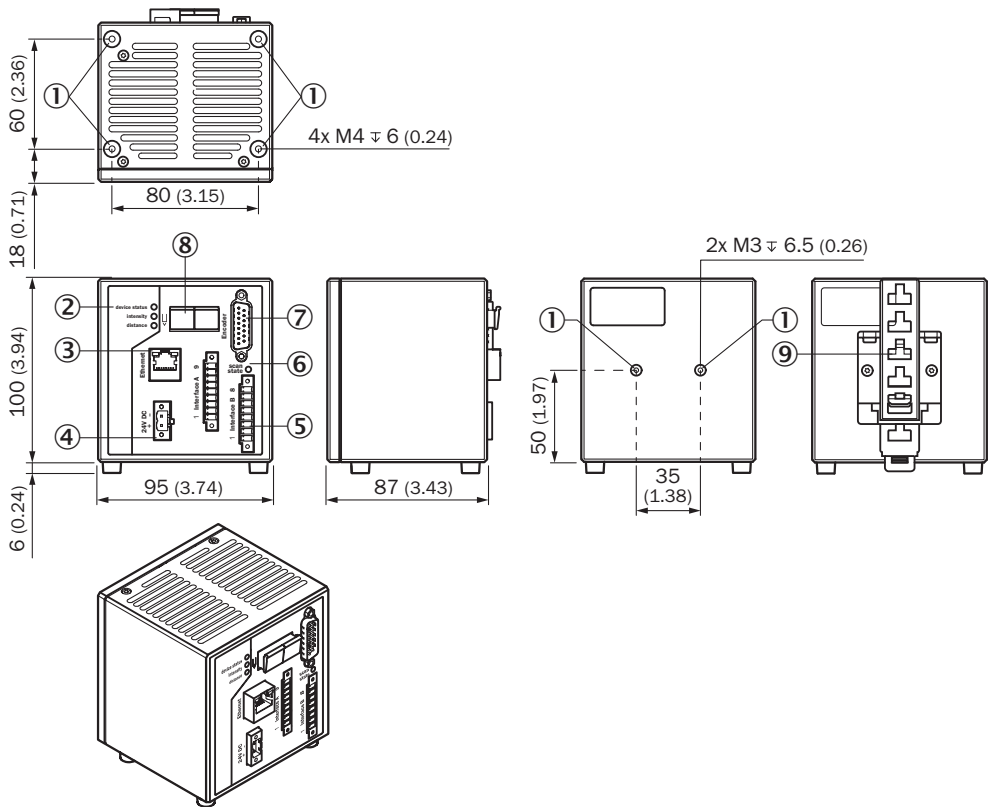
Dimensions in mm (inch)
① M4 threaded mounting hole
② status LEDs
③ Ethernet connection
④ Connecting the voltage supply
⑤ Connection strip interface B (analog outputs, digital inputs, digital outputs)
⑥ Terminal strip interface A (serial interface RS422 / RS232, trigger)
⑦ Encoder connection
⑧ Optical fiber connection
⑨ Mounting rail adapter

Recommended accessories

Other models and accessories ➜ www.sick.com/0D7000

Brief description		Type	part no.
connectors and cables			
	Strich		On request
	Strich		On request
	Strich		On request

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**

SICK AG | Waldkirch | Germany | www.sick.com

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