SICK.COM




DATA SHEET

# OD7000-10061032

OD7000
Displacement Sensors

SICK Sensor Intelligence




# DISPLACEMENT SENSORS

# OD7000-10061032

## ORDERING INFORMATION

| Type | part no. |
|---|---|
| OD7000-10061032 | 6079487 |

Further device versions and accessories at 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<br>Lateral 2 µm |
| Linearity | ± 0.198 µm |
| Number of measuring channels | 1 |
| Measuring frequency | ≤ 10 kHz |
| Emitted beam<br>Light source | <br>LED |
| Special task | Coating thickness measurement |
| LED risk group | Risk group 1 IEC 62471 |

### INTERFACES

| | |
|---|---|
| Serial<br>Data transmission rate | ✓ , RS-232, RS-422<br>RS-232: max. 1.8 MBaud, RS-422: max. 10 MBaud |
| Ethernet<br>Data transmission rate | ✓ , TCP/IP<br>100 Mbit/s |
| Digital output<br>Number | <br>0 |

### ELECTRONICS

| | |
|---|---|
| Supply voltage $U_B$ | DC 24 V, ± 10 % [1] |
| Power consumption | 4 W |
| Warm-up time | 30 min |
| Display | 3 status LEDs |
| Enclosure rating | IP20 (IEC 60529) |

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

| | |
|---|---|
| Protection class | III (IEC 61140) |
| Electrical safety | IEC 61010 |
| Connection type | |
| Ethernet | Female connector, RJ-45 |
| Interface A | Terminal strip, 9-pin |

[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 | 500 g |
| Optical fiber length | 3 m |

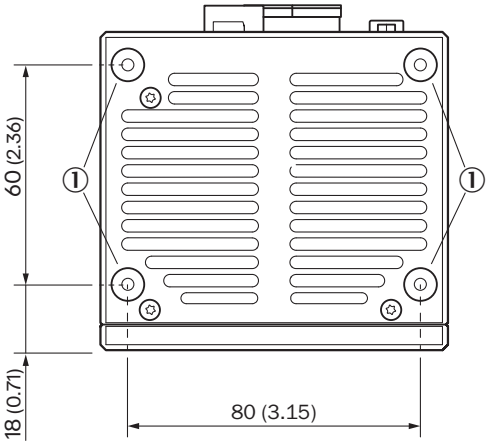
## AMBIENT DATA

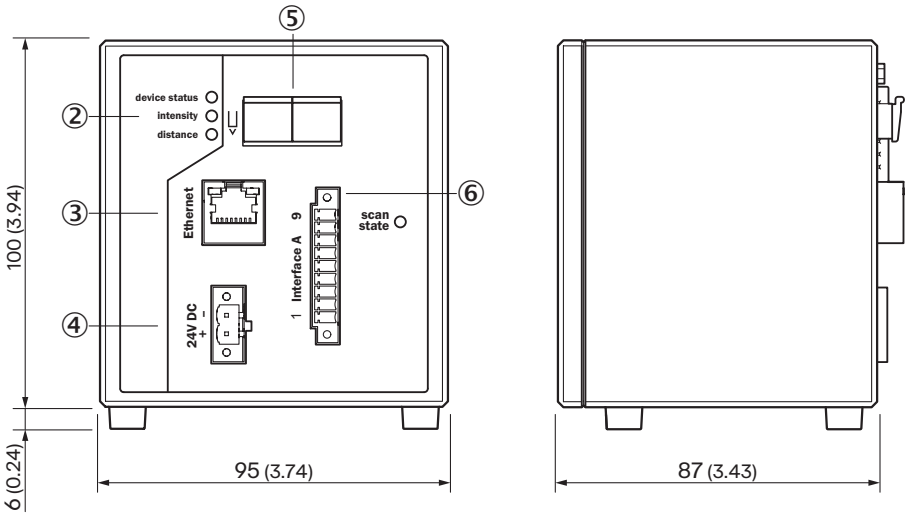
| | |
|---|---|
| Ambient temperature, operation | 0 °C ... +50 °C |
| Ambient temperature, storage | –20 °C ... +70 °C |
| Relative air humidity (non-condensing) | 30 % ... 75 % |
| Electromagnetic compatibility (EMC) | Radiated emission: EN 61326-1 |

## CERTIFICATES

| | |
|---|---|
| EU declaration of conformity | ✓ |
| UK declaration of conformity | ✓ |
| ACMA declaration of conformity | ✓ |
| Moroccan declaration of conformity | ✓ |
| Information according to Art. 3 of Data Act (Regulation EU 2023/2854) | ✓ |

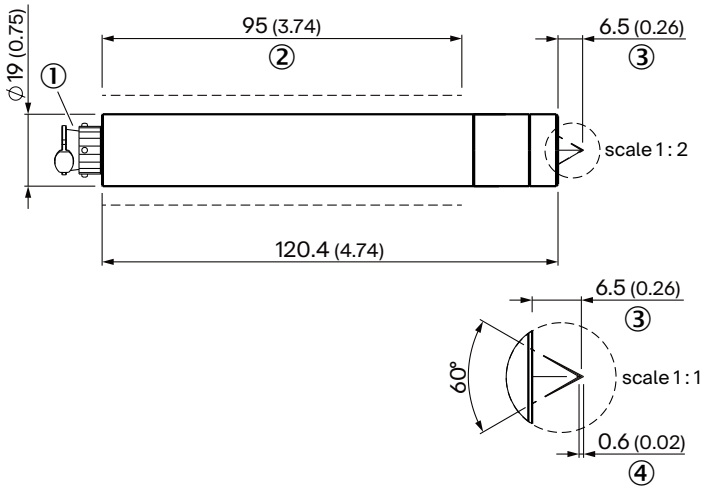
**DIMENSIONAL DRAWING, CONTROL UNIT**



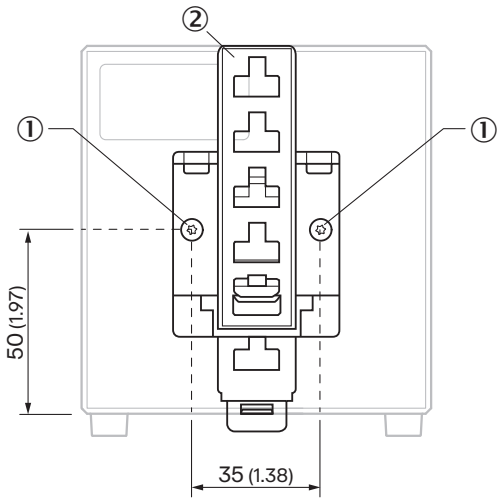

Dimensions in mm (inch)
① M4 threaded mounting hole
② status LEDs
③ Ethernet connection
④ Connecting the voltage supply
⑤ Optical fiber connection
⑥ Terminal strip interface A (serial interface RS422 / RS232, trigger)

**DIMENSIONAL DRAWING, SENSOR HEAD**




Dimensions in mm (inch)
① Optical fiber connection
② recommended clamping range
③ Average measuring distance (typical)
④ measuring range

**ASSEMBLY NOTE**




① Threaded mounting hole M3
② Mounting rail adapter

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/6079487

SICK AG
WALDKIRCH
GERMANY
SICK.COM

# SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

SICK

Sensor Intelligence