



WTM160T-P292

PRODUCT PORTFOLIO

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

| Type | Part no. |
|--------------|----------|
| WTM160T-P292 | 6020493 |

Other models and accessories → www.sick.com/

Detailed technical data

Features

| | |
|--|--------------------------------|
| Sensor/ detection principle | Photoelectric proximity sensor |
| Dimensions (W x H x D) | 11 mm x 38 mm x 23 mm |
| Housing design (light emission) | Rectangular |
| Sensing range max. | 8 mm ... 12 mm ¹⁾ |
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| Type of light | Visible green light |
| Light source | LED |
| Wave length | 540 nm |

¹⁾ Object with 90 % reflectance (referred to standard white, DIN 5033).

Mechanics/electronics

| | |
|--------------------------------|---|
| Supply voltage | 10 V DC ... 30 V DC |
| Ripple | ± 10 % |
| Power consumption | ≤ 40 mA ¹⁾ |
| Switching output | PNP |
| Switching mode | Light/dark switching |
| Switching mode selector | Selectable via light/dark rotary switch |
| Response time | ≤ 0.2 ms ²⁾ |
| Connection type | Cable, 2 m ³⁾ |
| Cable material | PVC |
| Conductor cross-section | 0.2 mm ² |
| Housing material | Plastic, PBT |
| Optics material | Plastic, PMMA |

¹⁾ Without load.

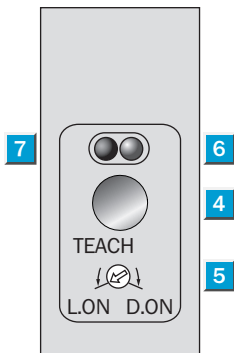
²⁾ Signal transit time with resistive load.

³⁾ 5 m available on request. Do not bend below 0 °C.

| | |
|--------------------------------------|-------------------------------|
| Enclosure rating | IP69K |
| Ambient operating temperature | -25 °C ... +55 °C |
| Ambient storage temperature | -40 °C ... +70 °C |
| UL File No. | NRNT2.E128350 & NRNT8.E128350 |

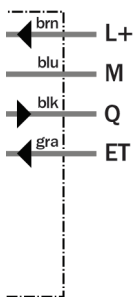
- 1) Without load.
- 2) Signal transit time with resistive load.
- 3) 5 m available on request. Do not bend below 0 °C.

Adjustments possible

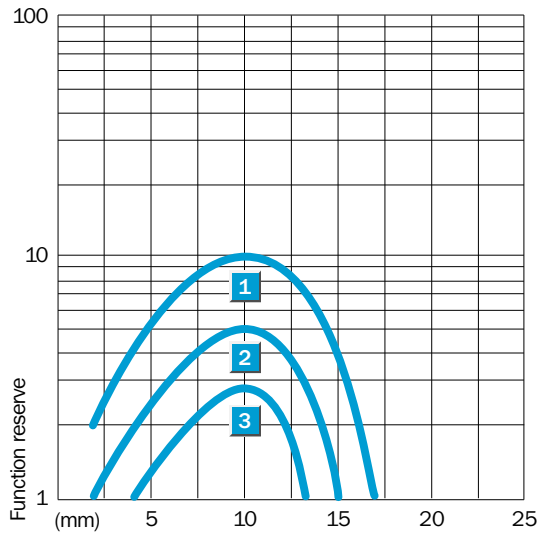


- ④ Teach-in button
- ⑤ Light/ dark rotary switch: L = light switching, D = dark switching
- ⑥ Orange LED indicator : switching output active
- ⑦ Green LED indicator: light reception with operating reserve >1.1

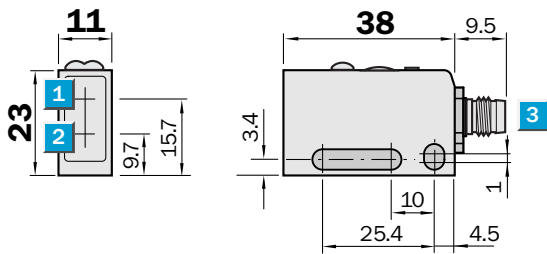
Connection diagram



Characteristic curve



Dimensional drawing (Dimensions in mm (inch))



- ① Center of optical axis, receiver
- ② Center of optical axis, sender
- ③ Connector M8, 3/4-pin or connection cable

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