



WT12-2N110

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
WT12-2N110	1016118

Other models and accessories → www.sick.com/

Detailed technical data

Features

Sensor/ detection principle	Photoelectric proximity sensor, Background suppression
Dimensions (W x H x D)	15 mm x 49 mm x 41.5 mm
Housing design (light emission)	Rectangular
Sensing range max.	20 mm ... 250 mm ¹⁾
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Type of light	Infrared light
Light source	LED
Adjustment	Potentiometer

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

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	≤ 5 V _{pp}
Power consumption	50 mA ¹⁾
Switching output	NPN
Switching mode	Light/dark switching
Response time	≤ 330 μs ²⁾
Connection type	Cable, 2 m ³⁾
Cable material	PVC

¹⁾ Without load.

²⁾ Signal transit time with resistive load.

³⁾ Do not bend below 0 °C.

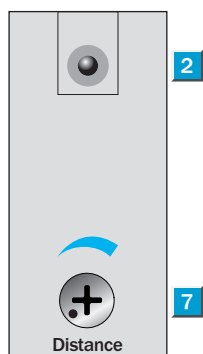
Conductor cross-section	0.25 mm ²
Cable diameter	Ø 5 mm
Housing material	Metal, Zinc diecast Metal, Zinc diecast
Optics material	Plastic, PMMA
Enclosure rating	IP69K
Ambient operating temperature	-40 °C ... +60 °C
Ambient storage temperature	-40 °C ... +75 °C
UL File No.	NRKH.E181493 & NRKH7.E181493

1) Without load.

2) Signal transit time with resistive load.

3) Do not bend below 0 °C.

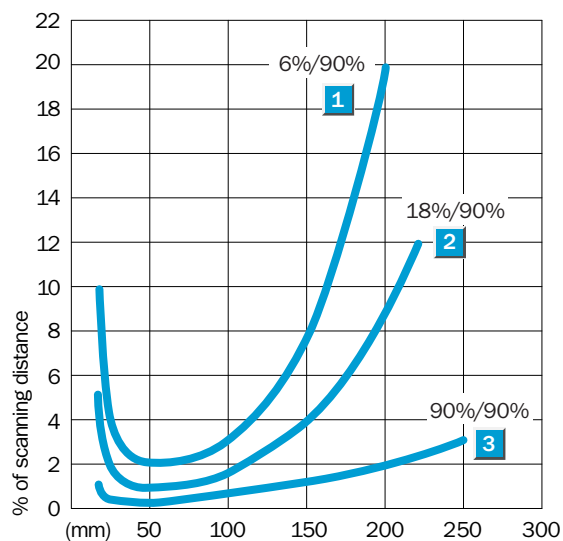
Adjustments possible



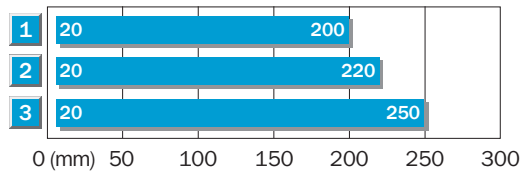
② LED signal strength indicator

⑦ Adjustment of sensing range

Characteristic curve

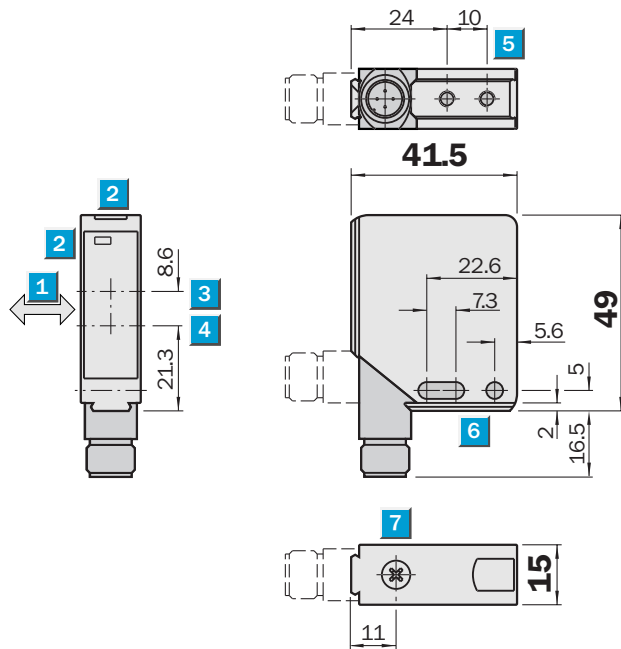


Sensing range diagram



1	Scanning distance on black, 6 % remission
2	Scanning distance on grey, 18 % remission
3	Scanning distance on white, 90 % remission

Dimensional drawing (Dimensions in mm (inch))



- ① Standard direction of the material being detected
- ② LED signal strength indicator
- ③ Optical axis, receiver
- ④ Optical axis, sender
- ⑤ M4 threaded mounting hole – 4 mm deep
- ⑥ Mounting hole, Ø 4.2 mm
- ⑦ Adjustment of sensing range

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