



WT9-2P460

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
WT9-2P460	1019098

Other models and accessories → www.sick.com/

Detailed technical data

Features

Functional principle	Photoelectric proximity sensor
Functional principle detail	Background suppression
Dimensions (W x H x D)	12 mm x 40 mm x 22 mm
Housing design (light emission)	Rectangular
Sensing range max.	50 mm ... 1,500 mm ¹⁾
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Type of light	Infrared light
Light source	LED
Adjustment	Potentiometer

¹⁾ Object with 90% remission (based on standard white, DIN 5033).

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	< 5 V _{pp}
Current consumption	30 mA ¹⁾
Switching output	PNP
Switching mode	Light/dark switching
Response time	≤ 1,000 μs ²⁾
Connection type	Male connector M12, 4-pin
Housing material	Plastic, ABS
Optics material	Plastic, PMMA

¹⁾ Without load.

²⁾ Signal transit time with resistive load.

Enclosure rating	IP69K
Ambient operating temperature	-40 °C ... +60 °C
Ambient temperature, storage	-40 °C ... +75 °C
UL File No.	NRKH.E181493 & NRKH7.E181493

1) Without load.

2) Signal transit time with resistive load.

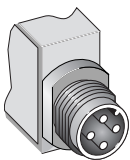
Safety-related parameters

MTTF_D	1,281 years
DC_{avg}	0 %

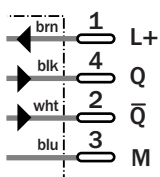
Classifications

eCl@ss 5.0	27270904
eCl@ss 5.1.4	27270904
eCl@ss 6.0	27270904
eCl@ss 6.2	27270904
eCl@ss 7.0	27270904
eCl@ss 8.0	27270904
eCl@ss 8.1	27270904
eCl@ss 9.0	27270904
eCl@ss 10.0	27270904
eCl@ss 11.0	27270904
ETIM 5.0	EC002719
ETIM 6.0	EC002719
ETIM 7.0	EC002719
UNSPSC 16.0901	39121528

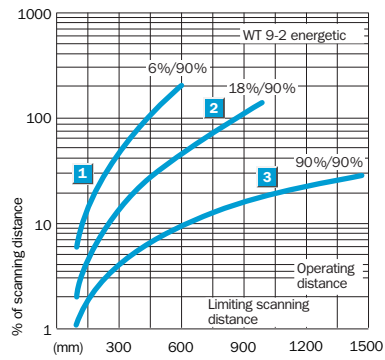
Connection type



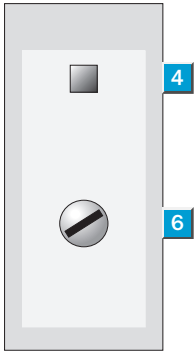
Connection diagram



Characteristic curve

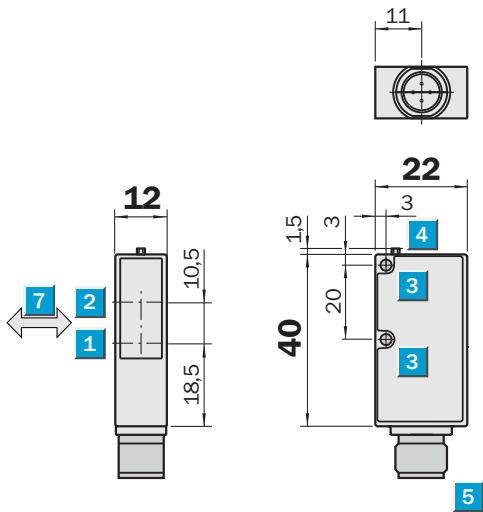


Adjustments



- ④ LED signal strength indicator
- ⑥ Adjustment of sensing range

Dimensional drawing (Dimensions in mm (inch))



- ① Center of optical axis, sender
- ② Center of optical axis, receiver
- ③ Mounting hole \varnothing 3.2 mm
- ④ LED signal strength indicator
- ⑤ 2 m connection cable or connector M12, 4-pin
- ⑥ Adjustment of sensing range
- ⑦ Standard direction

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