



WTE140-2N132

**SICK**  
Sensor Intelligence.



Illustration may differ



## Ordering information

Type	Part no.
WTE140-2N132	6024800

Other models and accessories → [www.sick.com/](http://www.sick.com/)

## Detailed technical data

### Features

<b>Functional principle</b>	Photoelectric proximity sensor
<b>Functional principle detail</b>	Energetic
<b>Dimensions (W x H x D)</b>	11 mm x 31 mm x 20 mm
<b>Housing design (light emission)</b>	Rectangular
<b>Sensing range max.</b>	0 mm ... 1,000 mm <sup>1)</sup>
<b>Sensing range</b>	0 mm ... 800 mm <sup>1)</sup>
<b>Type of light</b>	Visible red light
<b>Light source</b>	LED
<b>Wave length</b>	680 nm

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

### Mechanics/electronics

<b>Supply voltage</b>	10 V DC ... 30 V DC
<b>Ripple</b>	± 10 %
<b>Current consumption</b>	30 mA <sup>1)</sup>
<b>Switching output</b>	NPN
<b>Switching mode</b>	Light/dark switching
<b>Switching mode selector</b>	Selectable via light/dark rotary switch
<b>Response time</b>	≤ 0.5 ms <sup>2)</sup>
<b>Connection type</b>	Cable, 2 m <sup>3)</sup>
<b>Cable material</b>	PVC
<b>Conductor cross section</b>	0.18 mm <sup>2</sup>
<b>Cable diameter</b>	Ø 4 mm

<sup>1)</sup> Without load.

<sup>2)</sup> Signal transit time with resistive load.

<sup>3)</sup> Do not bend below 0 °C.

<b>Housing material</b>	Plastic, PBT
<b>Optics material</b>	Plastic, PC
<b>Enclosure rating</b>	IP67
<b>Ambient operating temperature</b>	-25 °C ... +55 °C
<b>Ambient temperature, storage</b>	-40 °C ... +70 °C
<b>UL File No.</b>	NRNT2.E128350 & NRNT8.E128350

1) Without load.

2) Signal transit time with resistive load.

3) Do not bend below 0 °C.

### Safety-related parameters

<b>MTTF<sub>D</sub></b>	1,406 years
<b>DC<sub>avg</sub></b>	0 %

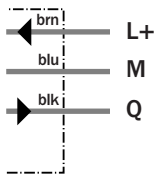
### Classifications

<b>eCl@ss 5.0</b>	27270903
<b>eCl@ss 5.1.4</b>	27270903
<b>eCl@ss 6.0</b>	27270903
<b>eCl@ss 6.2</b>	27270903
<b>eCl@ss 7.0</b>	27270903
<b>eCl@ss 8.0</b>	27270903
<b>eCl@ss 8.1</b>	27270903
<b>eCl@ss 9.0</b>	27270903
<b>eCl@ss 10.0</b>	27270904
<b>eCl@ss 11.0</b>	27270904
<b>ETIM 5.0</b>	EC001821
<b>ETIM 6.0</b>	EC001821
<b>ETIM 7.0</b>	EC002719
<b>UNSPSC 16.0901</b>	39121528

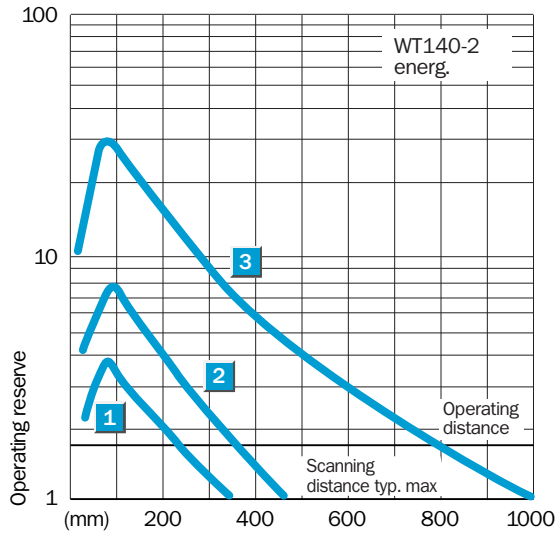
### Connection type



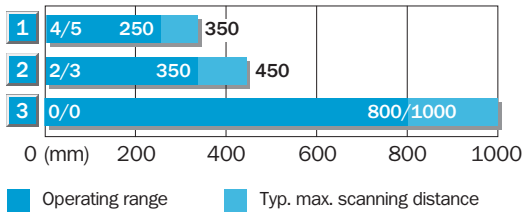
## Connection diagram



## Characteristic curve

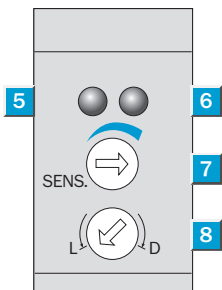


## Sensing range diagram



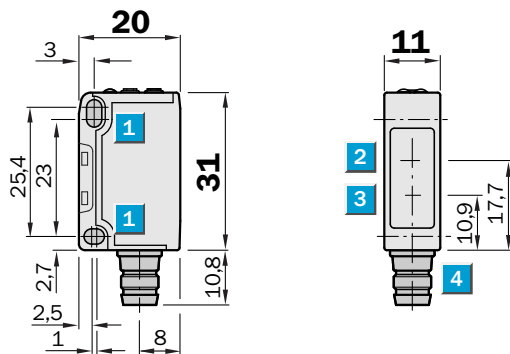
1	Scanning range on black, 6 % reflectance
2	Scanning range on gray, 18 % reflectance
3	Scanning range on white, 90 % reflectance

## Adjustments



- ⑤ Green LED indicator: light reception with operating reserve >1.1 and < 0.9
- ⑥ Orange LED indicator : switching output active
- ⑦ Sensitivity control 270°
- ⑧ Light/ dark rotary switch: L = light switching, D = dark switching

## Dimensional drawing (Dimensions in mm (inch))



- ① Mounting hole,  $\varnothing$  3.2 mm for M3
- ② Center of optical axis, receiver
- ③ Center of optical axis, sender
- ④ Connection

## 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.”

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