

WL140-2P330





## Ordering information

Туре	Part no.
WL140-2P330	6024798

Other models and accessories → www.sick.com/

Illustration may differ



#### Detailed technical data

## **Features**

Functional principle	Photoelectric retro-reflective sensor
Dimensions (W x H x D)	11 mm x 31 mm x 20 mm
Housing design (light emission)	Rectangular
Sensing range max.	0.01 m 6.5 m <sup>1)</sup>
Sensing range	0.01 m 5 m <sup>1)</sup>
Type of light	Visible red light
Light source	LED
Wave length	680 nm

<sup>1)</sup> Reflector PL80A.

## Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	± 10 %
Current consumption	30 mA <sup>1)</sup>
Switching output	PNP
Switching mode	Light/dark switching
Switching mode selector	Selectable via light/dark rotary switch
Response time	$\leq$ 0.5 ms $^{2)}$
Connection type	Connector M8, 3-pin
Housing material	Plastic, PBT
Optics material	Plastic, PMMA
Enclosure rating	IP67
Ambient operating temperature	-25 °C +55 °C

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

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

Ambient temperature, storage	-40 °C +70 °C
UL File No.	NRNT2.E128350 & NRNT8.E128350

 $<sup>^{1)}</sup>$  Without load.

## Safety-related parameters

MTTF <sub>D</sub>	1,402 years
DC <sub>avg</sub>	0 %

## Classifications

eCl@ss 5.0	27270902
eCl@ss 5.1.4	27270902
eCl@ss 6.0	27270902
eCl@ss 6.2	27270902
eCl@ss 7.0	27270902
eCl@ss 8.0	27270902
eCl@ss 8.1	27270902
eCl@ss 9.0	27270902
eCl@ss 10.0	27270902
eCl@ss 11.0	27270902
ETIM 5.0	EC002717
ETIM 6.0	EC002717
ETIM 7.0	EC002717
UNSPSC 16.0901	39121528

# Connection type

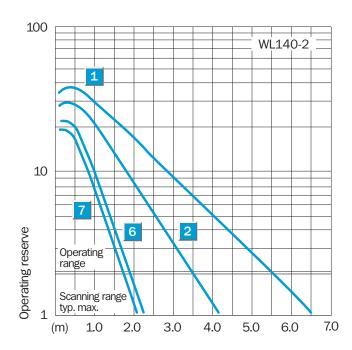


# Connection diagram

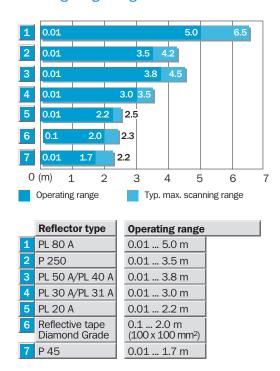


<sup>2)</sup> Signal transit time with resistive load.

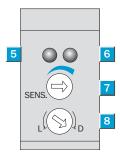
#### Characteristic curve



## Sensing range diagram

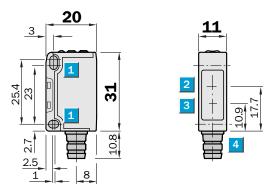


## Adjustments



- **(6)** Orange LED indicator: switching output active
- ⑦ Sensitivity control 270°
- S Light/ dark rotary switch: L = light switching, D = dark switching

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



- ① Mounting hole, ø 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."

# **WORLDWIDE PRESENCE:**

Contacts and other locations -www.sick.com

