



# WL27-2S132

W27-2

COMPACT PHOTOELECTRIC SENSORS

**SICK**  
Sensor Intelligence.



### Ordering information

Type	Part no.
WL27-2S132	1015110

Other models and accessories → [www.sick.com/W27-2](http://www.sick.com/W27-2)

Illustration may differ



### Detailed technical data

#### Features

<b>Functional principle</b>	Photoelectric retro-reflective sensor
<b>Dimensions (W x H x D)</b>	24.6 mm x 80 mm x 53.5 mm
<b>Housing design (light emission)</b>	Rectangular
<b>Sensing range max.</b>	0.1 m ... 14 m <sup>1)</sup>
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<b>Type of light</b>	Visible red light
<b>Light source</b>	LED <sup>2)</sup>
<b>Light spot size (distance)</b>	Ø 220 mm (10 m)
<b>Adjustment</b>	Potentiometer

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

<sup>2)</sup> Average service life: 100,000 h at T<sub>U</sub> = +25 °C.

#### Mechanics/electronics

<b>Supply voltage</b>	24 V AC/DC ... 240 V AC/DC
<b>Power consumption</b>	< 2 VA
<b>Switching output</b>	Relay, electrically isolated <sup>1)</sup>
<b>Output function</b>	Change-over contacts
<b>Switching mode</b>	Light/dark switching <sup>1)</sup>
<b>Switching current (switching voltage)</b>	4 A (240 V AC)

<sup>1)</sup> Provide suitable spark suppression for inductive or capacitive loads.

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

<sup>3)</sup> With light/dark ratio 1:1.

<sup>4)</sup> Do not bend below 0 °C.

<sup>5)</sup> A = V<sub>S</sub> connections reverse-polarity protected.

<sup>6)</sup> C = interference suppression.

<sup>7)</sup> Reference voltage: 250 V AC.

	0.2 A (120 V DC) 4 A (24 V DC)
<b>Response time</b>	< 6 ms <sup>2)</sup>
<b>Switching frequency</b>	10 Hz <sup>3)</sup>
<b>Connection type</b>	Cable, 5-wire, 2 m <sup>4)</sup>
<b>Conductor cross section</b>	0.25 mm <sup>2</sup>
<b>Circuit protection</b>	A <sup>5)</sup> C <sup>6)</sup>
<b>Protection class</b>	II <sup>7)</sup>
<b>Weight</b>	100 g
<b>Housing material</b>	Plastic, ABS
<b>Enclosure rating</b>	IP65
<b>Ambient operating temperature</b>	-40 °C ... +60 °C
<b>Ambient temperature, storage</b>	-40 °C ... +75 °C
<b>UL File No.</b>	NRKH.E181493 & NRKH7.E181493

1) Provide suitable spark suppression for inductive or capacitive loads.

2) Signal transit time with resistive load.

3) With light/dark ratio 1:1.

4) Do not bend below 0 °C.

5) A = V<sub>S</sub> connections reverse-polarity protected.

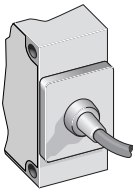
6) C = interference suppression.

7) Reference voltage: 250 V AC.

## Classifications

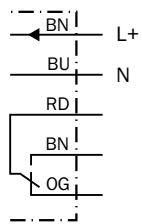
<b>eCl@ss 5.0</b>	27270902
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<b>eCl@ss 7.0</b>	27270902
<b>eCl@ss 8.0</b>	27270902
<b>eCl@ss 8.1</b>	27270902
<b>eCl@ss 9.0</b>	27270902
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<b>eCl@ss 12.0</b>	27270902
<b>ETIM 5.0</b>	EC002717
<b>ETIM 6.0</b>	EC002717
<b>ETIM 7.0</b>	EC002717
<b>ETIM 8.0</b>	EC002717
<b>UNSPSC 16.0901</b>	39121528

Connection type

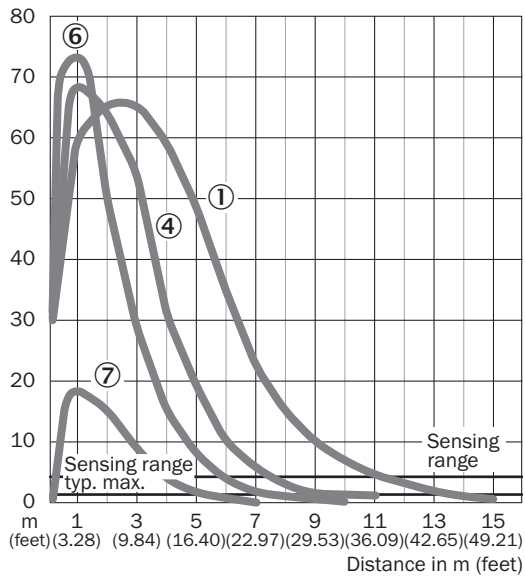


Connection diagram

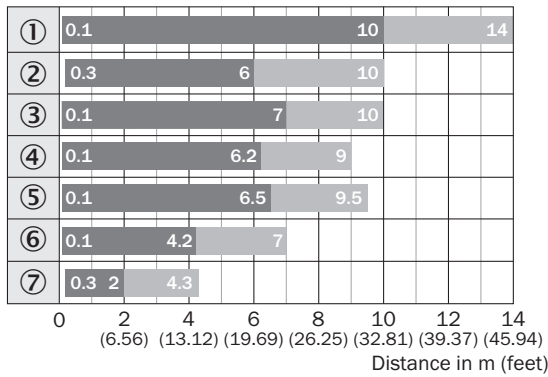
Cd-162



Characteristic curve



### Sensing range diagram






■ Sensing range      ■ Sensing range typ. max.

### Reflector type

- ① PL80A
- ② C110
- ③ PL50A
- ④ PL40A
- ⑤ PL30A
- ⑥ PL20A
- ⑦ Reflective tape  
Diamond Grade

### Recommended accessories

Other models and accessories → [www.sick.com/W27-2](http://www.sick.com/W27-2)

	Brief description	Type	Part no.
<b>Mounting brackets and plates</b>			
	Universal mounting bracket for reflectors, steel, zinc coated	BEF-WN-REFX	2064574
<b>Plug connectors and cables</b>			
	Head A: male connector, M12, 5-pin, straight Cable: unshielded For field bus technology	STE-1205-G	6022083
<b>Reflectors</b>			
	Rectangular, screw connection, 51 mm x 61 mm, PMMA/ABS, Screw-on, 2 hole mounting	P250	5304812

## 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](http://www.sick.com)