



WL100-2P1332S07

W100-2

MINIATURE PHOTOELECTRIC SENSORS



SICK ONS ON CE

Ordering information

Туре	Part no.
WL100-2P1332S07	6052389

Other models and accessories → www.sick.com/W100-2

Illustration may differ



Detailed technical data

Features

Functional principle	Photoelectric retro-reflective sensor
Functional principle detail	Dual lens
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 7.2 m ¹⁾
Sensing range	0.01 m 5.5 m ¹⁾
Type of light	Visible red light
Light source	LED ²⁾
Light spot size (distance)	Ø 280 mm (4 m)
Wave length	632 nm
Adjustment	None

¹⁾ Reflector PL80A.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC ¹⁾
Ripple	± 10 % ²⁾

¹⁾ Limit values.

 $^{^{2)}}$ Average service life: 100,000 h at T_U = +25 °C.

 $^{^{2)}}$ May not exceed or fall below U_{V} tolerances.

³⁾ Without load.

⁴⁾ Signal transit time with resistive load.

⁵⁾ With light/dark ratio 1:1.

⁶⁾ Do not bend below 0 °C.

 $^{^{7)}}$ A = V_S connections reverse-polarity protected.

⁸⁾ B = output reverse-polarity protected.

⁹⁾ D = outputs overcurrent and short-circuit protected.

¹⁾ Limit values.

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
eCl@ss 12.0	27270902
ETIM 5.0	EC002717
ETIM 6.0	EC002717

 $^{^{2)}}$ May not exceed or fall below U_{V} tolerances.

³⁾ Without load.

⁴⁾ Signal transit time with resistive load.

⁵⁾ With light/dark ratio 1:1.

 $^{^{6)}}$ Do not bend below 0 $^{\circ}\text{C}.$

 $^{^{7)}}$ A = V_S connections reverse-polarity protected.

⁸⁾ B = output reverse-polarity protected.

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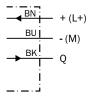
WL100-2P1332S07 | W100-2

MINIATURE PHOTOELECTRIC SENSORS

ETIM 7.0	EC002717
ETIM 8.0	EC002717
UNSPSC 16.0901	39121528

Connection diagram

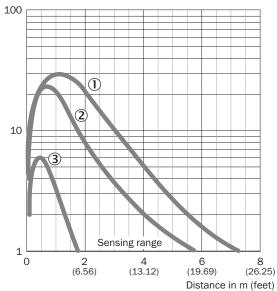
Cd-043



Characteristic curve

WL100-2

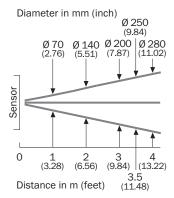
Function reserve



- ① Reflector PL80A
- ② Reflector P250
- ③ Diamond Grade reflective tape, 100 mm x 100 mm

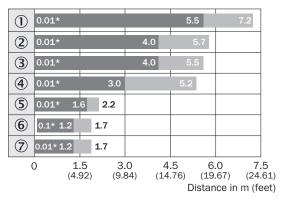
Light spot size

Light spot size



Sensing range diagram

WL100-2



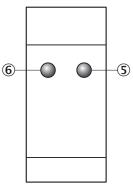
Sensing range

Sensing range max.

- ① Reflector PL80A
- ② Reflector P250
- 3 Reflector PL50A, PL40A
- Reflector PL30A, PL31A
- ⑤ Reflector PL20A
- Reflective tape Diamond Grade
- ⑦ P45

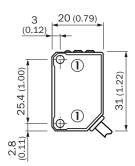
^{*}Close-up range at maximum sensitivity

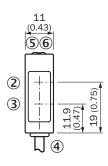
Adjustments



- ⑤ LED indicator orange: output active
- ⑥ LED indicator green: stability indicator

Dimensional drawing (Dimensions in mm (inch))





- ① Threaded mounting hole M3
- ② Center of optical axis, receiver
- ③ Center of optical axis, sender
- 4 Connection
- ⑤ LED indicator orange: switching output active
- 6 LED indicator green: power on

Recommended accessories

Other models and accessories → www.sick.com/W100-2

	Brief description	Туре	Part no.
Mounting brackets and plates			
	Mounting bracket for wall mounting, stainless steel, mounting hardware included	BEF-W100-A	5311520
. 2	Mounting bracket for floor mounting, steel, zinc coated, mounting hardware included	BEF-W100-B	5311521
	Universal mounting bracket for reflectors, steel, zinc coated	BEF-WN-REFX	2064574

WL100-2P1332S07 | W100-2 MINIATURE PHOTOELECTRIC SENSORS

	Brief description	Туре	Part no.
Plug connectors and cables			
	Head A: male connector, M8, 3-pin, straight Cable: unshielded	STE-0803-G	6037322
Reflectors			
	Rectangular, screw connection, 51 mm x 61 mm, PMMA/ABS, Screw-on, 2 hole mounting	P250	5304812

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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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