



WSE2S-2P1330S03

W2

MINIATURE PHOTOELECTRIC SENSORS





Illustration may differ



Ordering information

Туре	Part no.
WSE2S-2P1330S03	1086435

Included in delivery: SCREW SET W2S/G2S (1)

Other models and accessories → www.sick.com/W2

Detailed technical data

Features

Functional principle	Through-beam photoelectric sensor
Dimensions (W x H x D)	7.7 mm x 21.8 mm x 13.5 mm
Housing design (light emission)	Rectangular
Sensing range max.	0 m 2.5 m
Sensing range	0 m 2 m
Type of light	Visible red light
Light source	PinPoint LED ¹⁾
Light spot size (distance)	Ø 65 mm (1,500 mm)
Wave length	640 nm
Adjustment	None
Special features	Increased operating reserve

 $^{^{1)}}$ Average service life: 100,000 h at TU = +25 °C.

Mechanics/electronics

Supply voltage U _B	10 V DC 30 V DC ¹⁾

¹⁾ Limit values.

 $^{^{2)}\,\}mbox{May}$ not fall below or exceed $\mbox{U}_{\mbox{\sc V}}$ tolerances.

³⁾ Without load.

 $^{^{\}rm 4)}$ 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.

Ripple	< 5 V _{pp} ²⁾
Current consumption	20 mA ³⁾
Switching output	PNP
Switching mode	Light switching
Output current I _{max.}	≤ 50 mA
Response time	< 0.4 ms ⁴⁾
Switching frequency	1,200 Hz ⁵⁾
Connection type	Cable, 3-wire, 2 m ⁶⁾
Cable material	Plastic, PVC
Conductor cross section	0.09 mm ²
Cable diameter	Ø 3 mm
Circuit protection	A ⁷⁾ B ⁸⁾ D ⁹⁾
Housing material	Plastic, ABS/PC
Optics material	Plastic, PMMA
Enclosure rating	IP67
Ambient operating temperature	-25 °C +50 °C
Ambient temperature, storage	-40 °C +75 °C
UL File No.	NRKH.E181493
Part number of individual components	2071150 WSE2S-2 2071154 WS2S-2D1330

¹⁾ Limit values.

Classifications

ECLASS 5.0	27270901
ECLASS 5.1.4	27270901
ECLASS 6.0	27270901
ECLASS 6.2	27270901
ECLASS 7.0	27270901
ECLASS 8.0	27270901
ECLASS 8.1	27270901
ECLASS 9.0	27270901
ECLASS 10.0	27270901
ECLASS 11.0	27270901
ECLASS 12.0	27270901
ETIM 5.0	EC002716

²⁾ May not fall below or exceed U_V tolerances.

³⁾ Without load.

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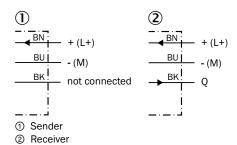
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ETIM 6.0	EC002716
ETIM 7.0	EC002716
ETIM 8.0	EC002716
UNSPSC 16.0901	39121528

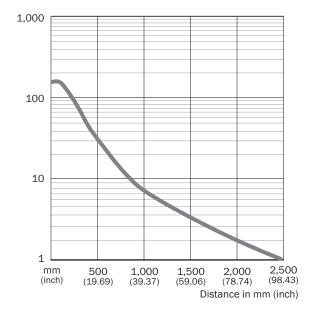
Connection diagram

Cd-049



Characteristic curve

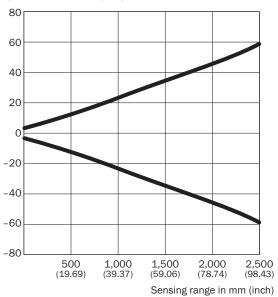
WSE2S-2



Light spot size

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Spot diameter in mm (inch)

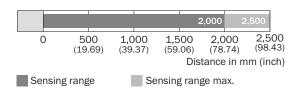


Dimensions in mm (inch)

Sensing range	Spot diameter
10	4.0
(0.39)	(0.16)
250 (9.84)	13.0 (0.51)
500	23.0
(19.69)	(0.91)
1,000	45.0
(39.37)	(1.77)
1,500	65.0
(59.06)	(2.56)
2,500	116.0
(98.43)	(4.57)

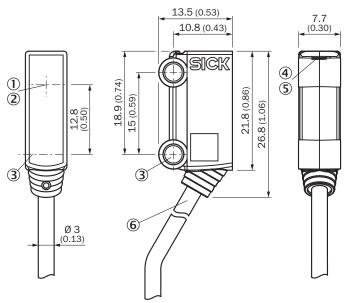
Sensing range diagram

WSE2S-2



Dimensional drawing (Dimensions in mm (inch))

WSE2S-2



- ① Optical axis, receiver
- ② Optical axis, sender
- 3 Middle axis fixing hole Ø 3.2 mm
- ④ LED indicator green: power on
- (5) LED indicator yellow: Status of received light beam
- 6 Connection

Recommended accessories

Other models and accessories → www.sick.com/W2

	Brief description	Туре	Part no.
Others			
	 Connection type head A: Male connector, M8, 3-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	STE-0803-G	6037322

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