



WSE11-2P1130

W11-2

SMALL PHOTOELECTRIC SENSORS





Ordering information

Туре	Part no.
WSE11-2P1130	1057572

Other models and accessories → www.sick.com/W11-2

Illustration may differ



Detailed technical data

Features

Functional principle	Through-beam photoelectric sensor
Dimensions (W x H x D)	15.6 mm x 48.5 mm x 42 mm
Housing design (light emission)	Rectangular
Sensing range max.	0 m 20 m
Sensing range	0 m 15 m
Focus	Approx. 1.5°
Type of light	Visible red light
Light source	LED ¹⁾
Light spot size (distance)	Ø 220 mm (15 m)
Angle of dispersion	Approx. 1.5°
Wave length	633 nm
Adjustment	None

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

Mechanics/electronics

Supply voltage $U_{\rm B}$	10 V DC 30 V DC ¹⁾

 $^{^{1)}}$ Limit values when operated in short-circuit protected network: max. 8 A.

 $^{^{2)}\,\}mbox{May}$ not exceed or fall below $\mbox{U}_{\mbox{\scriptsize V}}$ 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⁾ C = interference suppression.

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

Ripple	< 5 V _{pp} ²⁾
Power consumption, sender	≤ 25 mA ³⁾
Power consumption, receiver	≤ 20 mA ³⁾
Switching output	PNP
Output function	Complementary
Switching mode	Light/dark switching
Signal voltage PNP HIGH/LOW	Uv - 2.5 V / approx. 0 V
Output current I _{max.}	≤ 100 mA
Response time	≤ 2.5 ms ⁴⁾
Switching frequency	200 Hz ⁵⁾
Connection type	Cable, 4-wire, 2 m ⁶⁾
Cable material	PVC
Conductor cross section	0.25 mm ²
Circuit protection	A ⁷⁾ C ⁸⁾ D ⁹⁾
Protection class	II .
Weight	200 g
Housing material	Plastic, ABS
Optics material	Plastic, PMMA
Enclosure rating	IP66 IP67 IP69K
Test input sender off	TE to 0 V
Ambient operating temperature	-30 °C +60 °C
Ambient temperature, storage	-40 °C +75 °C
UL File No.	NRKH.E181493 & NRKH7.E181493
Part number of individual components	2063412 WS11-2D1130 2063413 WE11-2P1130

¹⁾ Limit values when operated in short-circuit protected network: max. 8 A.

Safety-related parameters

$MTTF_D$	982 years
DC _{avg}	0 %
T _M (mission time)	20 years

Classifications

eCl@ss 5.0	27270901
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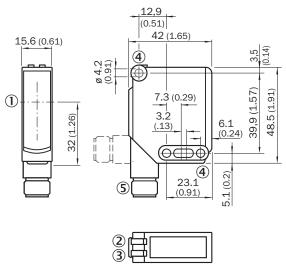
WSE11-2P1130 | W11-2

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eCl@ss 5.1.4	27270901
eCl@ss 6.0	27270901
eCl@ss 6.2	27270901
eCl@ss 7.0	27270901
eCl@ss 8.0	27270901
eCl@ss 8.1	27270901
eCl@ss 9.0	27270901
eCl@ss 10.0	27270901
eCl@ss 11.0	27270901
eCl@ss 12.0	27270901
ETIM 5.0	EC002716
ETIM 6.0	EC002716
ETIM 7.0	EC002716
ETIM 8.0	EC002716
UNSPSC 16.0901	39121528

Dimensional drawing (Dimensions in mm (inch))

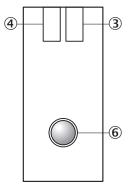
WSE11-2



- ① Center of optical axis
- ② LED indicator green: Supply voltage active
- ③ LED indicator yellow: Status of received light beam
- 4 Mounting hole ø 4.2 mm
- ⑤ M12 connector, 4-pin or cable

Adjustments

WTE11-2, WSE11-2



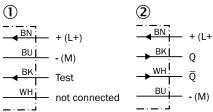
- $\ensuremath{ \mbox{3} \mbox{ LED indicator green: Supply voltage active} }$
- ④ LED indicator yellow: Status of received light beam
- Adjustment sensing range: single teach-in button

Connection type



Connection diagram

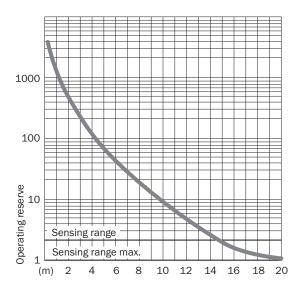
Cd-088



- ① Sender
- ② Receiver

Characteristic curve

WSE11-2



Recommended accessories

Other models and accessories → www.sick.com/W11-2

	Brief description	Туре	Part no.
Mounting brackets and plates			
	Mounting bracket, large, stainless steel, mounting hardware included	BEF-WG-W12	2013942
Plug connectors and cables			
Who were	Head A: male connector, M12, 4-pin, straight Cable: unshielded	STE-1204-G	6009932

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