

WTE11-2P2432

W11-2

PRODUCT PORTFOLIO





Illustration may differ

Ordering information

Туре	Part no.
WTE11-2P2432	1041381

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

Detailed technical data

Features

EC LAB

Sensor/ detection principle	Photoelectric proximity sensor, energetic
Dimensions (W x H x D)	15.6 mm x 48.5 mm x 42 mm
Housing design (light emission)	Rectangular
Sensing range max.	40 mm 1,000 mm ¹⁾
Sensing range	40 mm 600 mm
Type of light	Visible red light
Light source	LED ²⁾
Light spot size (distance)	Ø 90 mm (600 mm)
Wave length	633 nm
Adjustment	Single teach-in button

 $^{^{1)}}$ Object with 90 % reflectance (referred to standard white, DIN 5033).

Mechanics/electronics

Supply voltage	10 V DC 30 V DC ¹⁾
Ripple	≤ 5 V _{pp} ²⁾

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

 $^{^{2)}}$ 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.

 $^{^{6)}}$ A = V_S connections reverse-polarity protected.

 $^{^{7)}}$ C = interference suppression.

 $^{^{8)}}$ D = outputs overcurrent and short-circuit protected.

Power consumption	≤ 30 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	\leq 2.5 ms $^{4)}$
Switching frequency	200 Hz ⁵⁾
Connection type	Male connector M12, 4-pin
Circuit protection	A ⁶⁾ C ⁷⁾ D ⁸⁾
Protection class	II
Weight	120 g
Housing material	Plastic, ABS
Optics material	Plastic, PMMA
Enclosure rating	IP66 IP67
Ambient operating temperature	-30 °C +60 °C
Ambient storage temperature	-40 °C +75 °C
UL File No.	NRKH.E181493 & NRKH7.E181493

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

Classifications

ECI@ss 5.0	27270903
ECI@ss 5.1.4	27270903
ECI@ss 6.0	27270903
ECI@ss 6.2	27270903
ECI@ss 7.0	27270903
ECI@ss 8.0	27270903
ECI@ss 8.1	27270903
ECI@ss 9.0	27270903
ETIM 5.0	EC001821
ETIM 6.0	EC001821
UNSPSC 16.0901	39121528

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.

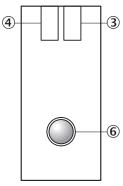
⁶⁾ A = V_S connections reverse-polarity protected.

⁷⁾ C = interference suppression.

⁸⁾ D = outputs overcurrent and short-circuit protected.

Adjustments possible

WTE11-2, WSE11-2



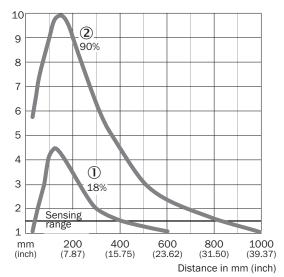
- ③ LED indicator green: Supply voltage active
- 4 LED indicator yellow: Status of received light beam
- 6 Adjustment sensing range: single teach-in button

Connection diagram

Cd-083

Characteristic curve

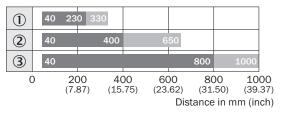
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- ① Sensing range on gray, 18 % remission
- ② Sensing range on white, 90% remission

Sensing range diagram

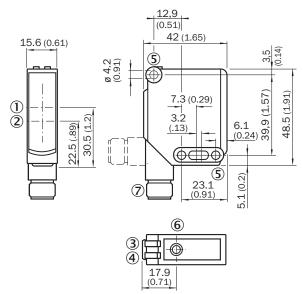
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- Sensing range
- Sensing range typ. max.
- ① Sensing range on black, 6% remission
- 3 Sensing range on white, 90% remission

Dimensional drawing (Dimensions in mm (inch))

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- ① Optical axis, sender
- ② Optical axis, receiver
- ③ LED indicator green: Supply voltage active
- 4 LED indicator yellow: Status of received light beam
- 6 Mounting hole ø 4.2 mm
- ⑤ Sensitivity setting: single teach-in button
- ⑦ Connector M12 or cable

Recommended accessories

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

	Brief description	Туре	Part no.
Universal bar clamp systems			
0	Plate N02 for universal clamp bracket, Zinc plated steel (sheet), Zinc die cast (clamping bracket), Universal clamp (5322626), mounting hardware	BEF-KHS-N02	2051608
	Plate N03 for universal clamp bracket, zinc coated, Zinc plated steel (sheet), Zinc die cast (clamping bracket), Universal clamp (5322626), mounting hardware	BEF-KHS-N03	2051609
	Plate NO4 for universal clamp, steel, Zinc plated steel (sheet), Zinc die cast (clamping bracket), Universal clamp (5322626), mounting hardware	BEF-KHS-N04	2051610
Device protec	tion (mechanical)		
1	Protective housing for universal clamp, Zinc plated steel (protective housing), Zinc die cast (clamping bracket), Universal clamp, mounting hardware	BEF-SG-W12-3	2045175
Mounting bra	ckets and plates		
	Mounting bracket, large, stainless steel, mounting hardware included	BEF-WG-W12	2013942
	Mounting bracket, small, stainless steel, mounting hardware included	BEF-WK-W12	2012938
Terminal and	alignment brackets		
	Double clamp bracket for dovetail mounting, Aluminum (anodised), mounting hardware included	BEF-DKH-W12	2013947
	Clamping block for dovetail mounting, Aluminum (anodised), mounting hardware included	BEF-KH-W12	2013285
Plug connecto	ors and cables		
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF2A14-020VB3XLEAX	2096234
	Head A: female connector, M12, 5-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF2A15-020VB5XLEAX	2096239
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG2A14-020VB3XLEAX	2095895
	Head A: female connector, M12, 5-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG2A15-020VB5XLEAX	2096215
	Head A: female connector, M12, 4-pin, straight Head B: - Cable: unshielded	DOS-1204-G	6007302
	Head A: female connector, M12, 4-pin, angled Head B: -	DOS-1204-W	6007303

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Brief description	Туре	Part no.
Head A: male connector, M12, 4-pin, straight Head B: - Cable: unshielded	STE-1204-G	6009932
Head A: male connector, M12, 4-pin, angled Head B: - Cable: unshielded	STE-1204-W	6022084

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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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