

WT14-2P432S06 W14-2

SMALL PHOTOELECTRIC SENSORS





Ordering information

Туре	Part no.
WT14-2P432S06	1042464

Other models and accessories → www.sick.com/W14-2

Illustration may differ



Detailed technical data

Features

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Sensor/ detection principle	Photoelectric proximity sensor, Background suppression
Dimensions (W x H x D)	17.6 mm x 75.5 mm x 33.5 mm
Housing design (light emission)	Rectangular
Sensing range max.	50 mm 1,000 mm ¹⁾
Sensing range	50 mm 2,000 mm ²⁾
Type of light	Visible red light
Light source	LED ³⁾
Light spot size (distance)	Ø 10 mm (250 mm)
Wave length	675 nm
Adjustment	Potentiometer, 4 turns

 $^{^{1)}}$ Object with 18% remission (based on standard white DIN 5033).

Mechanics/electronics

Supply voltage	10 V DC 30 V DC ¹⁾
Ripple	5 V _{pp} ²⁾
Power consumption	25 mA ³⁾

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

 $^{^{2)}}$ Object with 90 % reflectance (referred to standard white, DIN 5033).

 $^{^{3)}}$ Average service life: 100,000 h at T_U = +25 °C.

 $^{^{2)}\,\}mbox{May}$ 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.

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

⁷⁾ C = interference suppression.

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

Switching output	PNP
Output function	Complementary
Switching mode	Light/dark switching
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⁾
Weight	40 g
Special device	✓
Housing material	Plastic, ABS
Optics material	Plastic, PMMA
Enclosure rating	IP67
Ambient operating temperature	-25 °C +60 °C
Ambient storage temperature	-40 °C +70 °C
UL File No.	NRKH.E181493 & NRKH7.E181493

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

Classifications

27270904
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EC002719
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39121528

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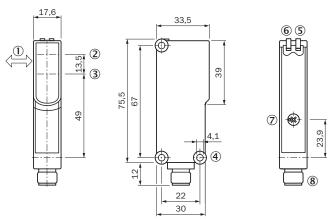
SMALL PHOTOELECTRIC SENSORS

Connection diagram

Cd-083

Dimensional drawing (Dimensions in mm (inch))

WT14-2, potentiometer



- ① Standard direction of the material being detected
- ② Center of optical axis, sender
- 3 Center of optical axis, receiver
- 4 Mounting hole g 4.1 mm
- ⑤ LED indicator yellow: Status of received light beam
- **(6)** LED indicator green: Supply voltage active
- ⑦ Potentiometer
- M12 male connector, 4-pin or 2 m cable

Recommended accessories

Other models and accessories → www.sick.com/W14-2

	Brief description	Туре	Part no.
Mounting brackets and plates			
	Mounting bracket, steel, zinc coated, mounting hardware included	BEF-WN-W14	2019084
Plug connect	ors and cables		
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF2A14- 050VB3XLEAX	2096235

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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

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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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