



Photoelectric sensors
W14-2, Photoelectric proximity sensor,
Background suppression

WT14-2P432S06



Model Name > [WT14-2P432S06](#)
Part No. > [1042464](#)

At a glance

- Emitter LED with visible red light
- Background suppression
- Adjustable sensing range
- High immunity to ambient light
- Rugged plastic housing

Your benefits

- Highly visible red light allows for quick installation and simple alignment
- Reliable object detection with background suppression
- Quick and easy sensing range adjustment due to 4-speed potentiometer
- Crosstalk and ambient light immunity reduces false trips and downtime
- High availability in the field



Illustration may differ



Features

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⁾
Wave length:	675 nm
Adjustment:	Potentiometer, 4-turn
Light spot size (distance):	Ø 10 mm (250 mm)

¹⁾ Objects to be sensed with 18 % reflectivity (based on DIN 5033 white standard) ²⁾ Object with 90 % reflectance (referred to standard white DIN 5033) ³⁾ Average

service life of 100,000 h at T_A = +25 °C

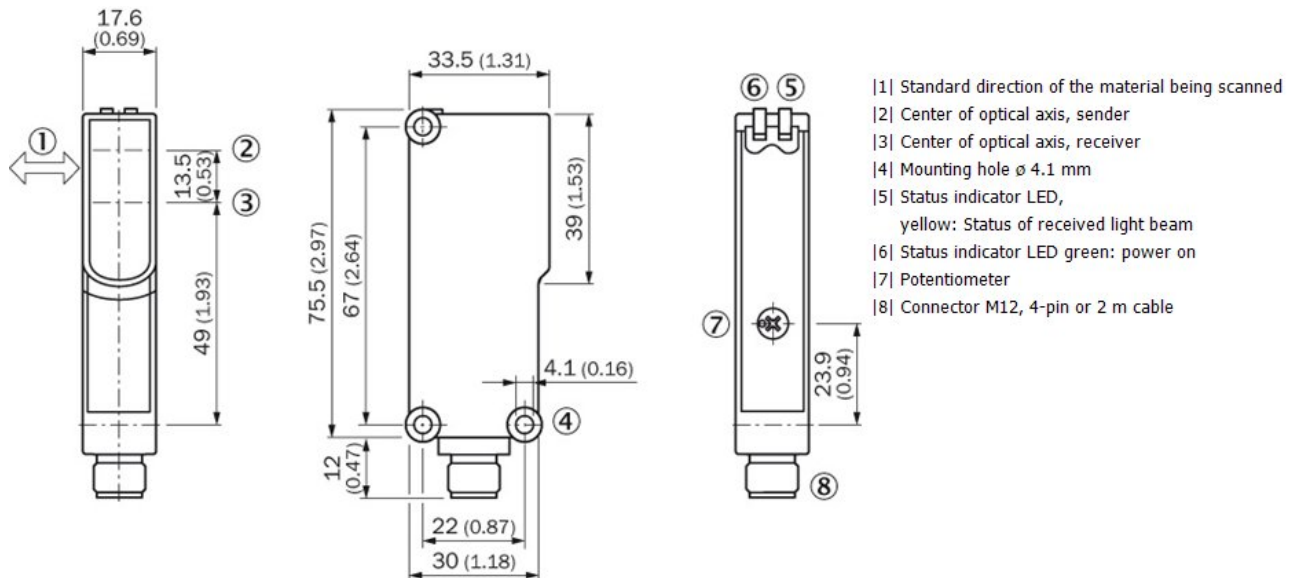
Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Ripple:	5 Vpp ²⁾
Power consumption:	≤ 25 mA ³⁾
Output type:	PNP
Output function:	Complementary
Switching mode:	Light/dark-switching
Output current I _{max} :	≤ 100 mA

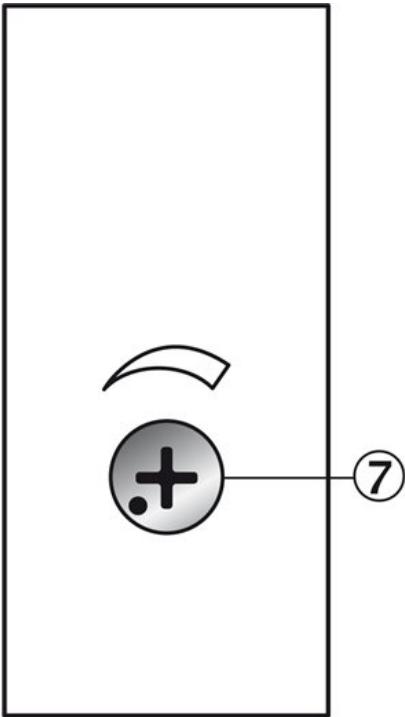
Response time:	$\leq 2.5 \text{ ms}$ ⁴⁾
Switching frequency:	200 Hz ⁵⁾
Connection type:	Connector M12, 4-pin
Circuit protection:::	A, C, D ⁶⁾ ⁷⁾ ⁸⁾
Weight:	40 g
Special device:	✓
Housing material:	ABS, Plastic
Optics material:	PMMA
Enclosure rating:	IP 67
Ambient operating temperature:	-25 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 70 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493

¹⁾ Limit values, operation in short-circuit protected network max. 8 A ²⁾ May not exceed or fall short of V_S 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

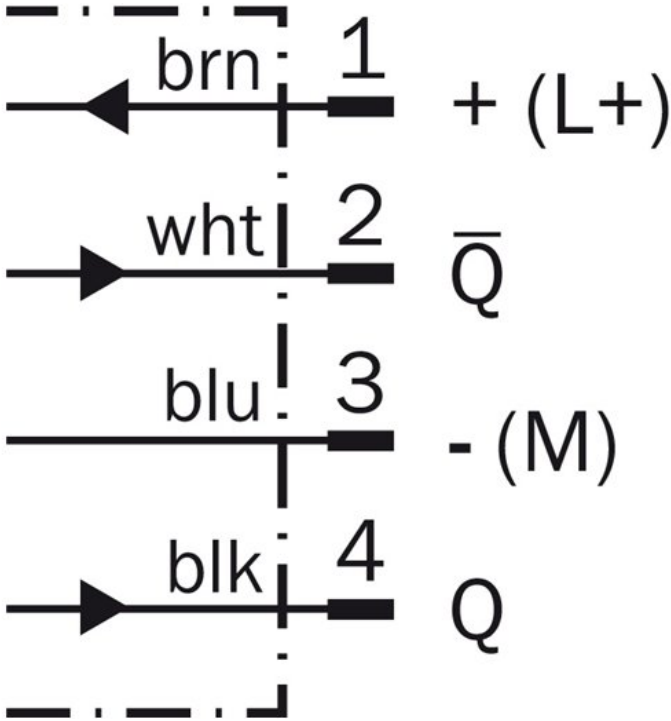
Dimensional drawing



Adjustments possible



Connection diagram



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