

WTE11-2P2432







Photoelectric sensors W11-2, Photoelectric proximity sensor, energetic

Model Name > WTE11-2P2432

Part No. > 1041381



At a glance

- · Energetic proximity sensor
- Rugged housing for industrial use
- · PinPoint LED technology with a highly visible light spot
- Space-saving plastic housing in chemically, thermally or mechanically resistant
- · Dovetail mounting standard mounting holes and oblong holes
- Highly visible 360° status LEDs
- · Simple sensing distance adjustment via teach-in pushbutton
- Operating distance up to 1,000 mm

Your benefits

- · Reliable detection of objects ranging from light to dark thanks to superior chip technology
- PinPoint LED technology provides a bright, small and precise light spot that enables quick and easy sensor alignment
- Precise switching characteristics ensure high performance even in changing application conditions
- · Rugged housing design withstands harsh environments, reducing downtime and maintenance effort
- Highly visible 360° status LEDs provide quick and easy setup without additional personnel or costly training
- · Easy installation using SICK accessories



Illustration may differ







Features

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

40 mm ... 1,000 mm Sensing range max.: 40 mm ... 600 mm Sensing range: Type of light: Visible red light

LED 2) Light source: 633 nm Wave length:

Teach-in: Single teach-in button

Adjustment: Teach-in

Light spot size (distance): Ø 90 mm (600 mm)

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033) 2) Average service life of 100,000 h at T_{Δ} = +25 °C

Mechanics/electronics

10 V DC ... 30 V DC ¹⁾
≤ 30 mA ²⁾ Supply voltage:

Power consumption: PNP Output type:

Output function: Complementary Light/dark switching Switching mode: Signal voltage PNP HIGH/LOW: Uv - 2.5 V/approx. 0 V

100 mA Output current Imax.: 100 mA 3 ≤ 2.5 ms 3 Response time: 200 Hz Switching frequency:

Connector M12, 4-pin A, C, D 5) 6) 7) Connection type:

Circuit protection::: Protection class: 120 g Weight: ABS, Plastic Housing material: Optics material: **PMMA**

Enclosure rating: **IP 66** IP 67

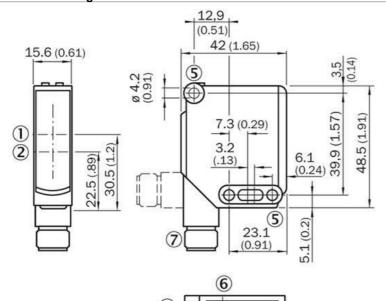
-30 °C ... 60 °C Ambient operating temperature: -40 °C ... 75 °C Ambient storage temperature:

NRKH.E181493 & NRKH7.E181493 UL File No.:

May not exceed or fall short of V_S tolerances;

¹⁾ Limit values, operation in short-circuit protected network max. 8 A 2) Without load 3) Signal transit time with resistive load 4) With light/dark ratio 1:1 5) A = V S connections reverse-polarity protected $^{6)}$ C = interference suppression $^{7)}$ D = outputs overcurrent and short-circuit protected

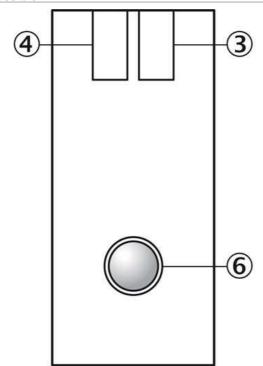
Dimensional drawing



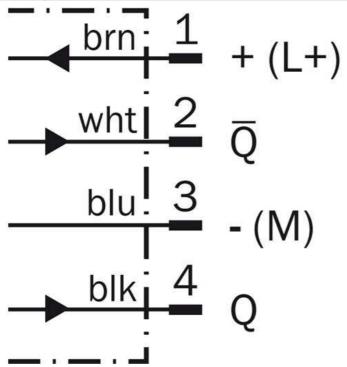
17.9 (0.71)

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

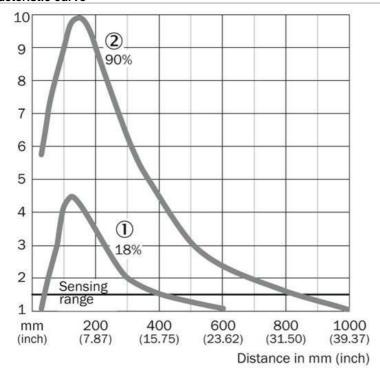
Adjustments possible



- |3| Status indicator LED green: power on
- |4| Status indicator LED, yellow: Status of received light beam
- |6| Adjustment sensing range: single teach button

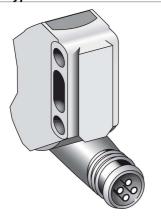


Characteristic curve

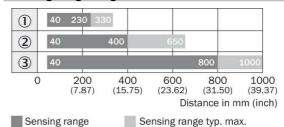


- |1| Sensing range on grey, 18 % remission
- |2| Sensing range on white, 90 % remission

Connection type



Sensing range diagram



- ① Sensing range on black, 6 % remission
- 2 Sensing range on gray, 18 % remission
- 3 Sensing range on white, 90 % remission

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