

WTB12-3P2433T01







Photoelectric sensors W12 Teflon, Photoelectric proximity sensor, Background suppression

Model Name > WTB12-3P2433T01

Part No. > 1048278



At a glance

- · Best-in-class optical performance due to superior OES technology
- · Autocollimation in retro-reflective sensors
- · Background and foreground suppression with second emitter LED in proximity
- · Highly visible, bright, precise light spot
- · Rugged metal housing, optional with Teflon® coating
- · Connection via cable or rotatable connector
- Mounting options with through holes, base blind holes, oblong through holes and dovetail
- IO-Link communication available (optional)



Illustration may differ

Your benefits

Reliable detection due to superior ASIC (application-specific integrated circuit) technology and immunity to optical interference factors from the industrial environment

PinPoint LED technology for a bright, small and precise light spot, enabling quick and easy sensor alignment

Precise switching characteristics ensure reliable object detection, reducing downtime caused by re-adjusting sensors during recipe changes

Quick and easy setup due to highly visible status LEDs

Wide range of products enclosed in a rugged metal housing enables application flexibility in a broad range of industrial environments

Uniform design for entire product family regardless of connection, which ensures simple machine integration

Quick and easy mounting due to several mounting options

Easy installation using SICK accessories











Features

Sensor/detection principle: Dimensions (W x H x D): Housing design (light emission): Sensing range max.:

Photoelectric proximity sensor, Background suppression 15.6 mm x 48.5 mm x 42 mm Rectangular 20 mm ... 350 mm ¹⁾

Sensing range: 20 mm ... 350 mm Type of light: Visible red light

LED 2) Light source: Wave length: 640 nm

Teach-in: Double teach-in button

Adjustment: Teach-in Light spot size (distance): 6 mm (200 mm)

Mechanics/electronics

10 V DC ... 30 V DC ¹⁾
≤ 45 mA ²⁾ Supply voltage:

Power consumption: Output type: PNP

Complementary Output function: Light/dark-switching Switching mode:

Output current Imax.: 100 mA ≤ 330 µs Response time: 1,500 Hz ⁴⁾ Switching frequency:

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

Circuit protection:::

Protection class: Weight: 120 g Housing material: **PTFE** Enclosure rating: **IP 66** IP 67 **IP 69K**

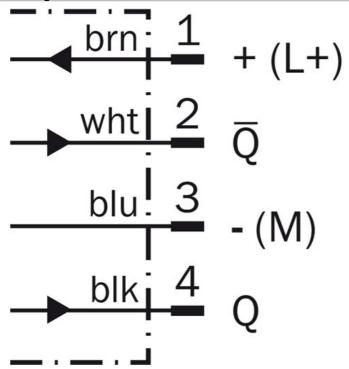
-40 °C ... 60 °C

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

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

 $^{^{\}mbox{\scriptsize 1)}}$ Object with 90 % reflectance (referred to standard white DIN 5033) 2) Average service life of 100,000 h at T $_{A}$ = +25 $^{\circ}$ C

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



Connection type



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