



## Fotoprzełączniki W4-3, Fotoprzełącznik odbiciowy, Tłumienie tła

WTB4-3N1061S31



Nazwa modelu > **WTB4-3N1061S31**

Numer części > **1044345**



*Produkt może różnić się od ilustracji*

#### At a glance

- Intense light spot with PinPoint LED technology
- Sensor with IR light available upon request
- Sensing range of 4 - 150 mm
- Background suppression sensor available with laser-like light spot
- Adjustment either via teach-in pushbutton, 5-turn potentiometer, cable or IO-Link
- Second emitter LED designed for suppression of shiny backgrounds
- Flexible sensing ranges and hysteresis settings
- Key lock function, remote teach, quality monitoring

#### Your benefits

- Reliable detection of objects regardless of color and consistency
- Smart machine design ensures low-cost integration due to mounting flexibility in areas with limited space
- Best-in-class background suppression and a high immunity to ambient light, ensuring reliable object detection
- Rugged mounting system with M3 threaded metal inserts reduces maintenance costs due to a long service life
- Precise detection with a high level of repeat accuracy due to an intense light spot with PinPoint LED technology
- Quick and easy format adjustment
- Easy monitoring of sensor status
- Key lock function and parameter download prevent incorrect settings



#### Cechy

|                                            |                                          |
|--------------------------------------------|------------------------------------------|
| Zasada działania czujnika/Sposób detekcji: | Fotoprzełącznik odbiciowy, Tłumienie tła |
| Wymiary (Szer. x Wys. x Głęb.):            | 16 mm x 39,5 mm x 12 mm                  |
| Housing design (light emission):           | Prostopadłościenna, Flat                 |
| Maks. strefa działania:                    | 4 mm ... 150 mm <sup>1)</sup>            |
| Sensing range:                             | 15 mm ... 150 mm <sup>2)</sup>           |
| Rodzaj światła:                            | Widzialne światło czerwone               |
| Nadajnik światła:                          | Pin Point LED <sup>3)</sup>              |
| Długość fali:                              | 650 nm                                   |
| Nastawa:                                   | Potencjometr, 5 obrotów                  |
| Średnica plamki świetlnej (odległość):     | Ø 7 mm (50 mm)                           |

<sup>1) 2)</sup> Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) <sup>3)</sup> Average service life of 100,000 h at T<sub>A</sub> = +25 °C

## Mechanika/elektronika

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|                                     |                                                   |
|-------------------------------------|---------------------------------------------------|
| Napięcie zasilania:                 | 10 V DC ... 30 V DC <sup>1)</sup>                 |
| Tętnienia resztkowe:                | < 5 Vss <sup>2)</sup>                             |
| Pobór prądu:                        | ≤ 20 mA <sup>3)</sup>                             |
| Switching output:                   | NPN                                               |
| Tryb przełączania:                  | Przełączanie na jasnym                            |
| Output current I <sub>max</sub> ..: | ≤ 100 mA                                          |
| Czas reakcji:                       | < 0,5 ms <sup>4)</sup>                            |
| Switching frequency:                | 1.000 Hz <sup>5)</sup>                            |
| Układ zabezpieczenia:::             | A, C, D <sup>6)</sup> <sup>7)</sup> <sup>8)</sup> |
| Klasa ochronności:                  | III                                               |
| Ciężar:                             | 30 g                                              |
| Special device:                     | -                                                 |
| Tworzywo, obudowa:                  | ABS, Tworzywo sztuczne                            |
| Tworzywo, układ optyczny:           | PMMA                                              |
| Rodzaj zabezpieczenia:              | IP 67<br>IP 66                                    |
| Ambient operating temperature:      | -40 °C ... 60 °C                                  |
| Ambient storage temperature:        | -40 °C ... 75 °C                                  |
| UL File No.:                        | NRKH.E181493 & NRKH7.E181493                      |

<sup>1)</sup> Limit values   <sup>2)</sup> May not exceed or fall short of V<sub>S</sub> tolerances   <sup>3)</sup> Bez obciążenia   <sup>4)</sup> Signal transit time with resistive load   <sup>5)</sup> With light/dark ratio 1:1   <sup>6)</sup> A = V<sub>S</sub>  
connections reverse-polarity protected   <sup>7)</sup> C = interference suppression   <sup>8)</sup> D = outputs overcurrent and short-circuit protected

**Australia**

Phone +61 3 9457 0600  
1800 334 802 – tollfree  
E-Mail sales@sick.com.au

**Belgium/Luxembourg**

Phone +32 (0)2 466 55 66  
E-Mail info@sick.be

**Brasil**

Phone +55 11 3215-4900  
E-Mail sac@sick.com.br

**Canada**

Phone +1 905 771 14 44  
E-Mail information@sick.com

**Česká republika**

Phone +420 2 57 91 18 50  
E-Mail sick@sick.cz

**China**

Phone +86 4000 121 000  
E-Mail info.china@sick.net.cn  
Phone +852-2153 6300  
E-Mail ghk@sick.com.hk

**Danmark**

Phone +45 45 82 64 00  
E-Mail sick@sick.dk

**Deutschland**

Phone +49 211 5301-301  
E-Mail info@sick.de

**España**

Phone +34 93 480 31 00  
E-Mail info@sick.es

**France**

Phone +33 1 64 62 35 00  
E-Mail info@sick.fr

**Great Britain**

Phone +44 (0)1727 831121  
E-Mail info@sick.co.uk

**India**

Phone +91-22-4033 8333  
E-Mail info@sick-india.com

**Israel**

Phone +972-4-6801000  
E-Mail info@sick-sensors.com

**Italia**

Phone +39 02 27 43 41  
E-Mail info@sick.it

**Japan**

Phone +81 (0)3 3358 1341  
E-Mail support@sick.jp

**Magyarország**

Phone +36 1 371 2680  
E-Mail office@sick.hu

**Nederland**

Phone +31 (0)30 229 25 44  
E-Mail info@sick.nl

**Norge**

Phone +47 67 81 50 00  
E-Mail austefjord@sick.no

**Österreich**

Phone +43 (0)22 36 62 28 8-0  
E-Mail office@sick.at

**Polska**

Phone +48 22 837 40 50  
E-Mail info@sick.pl

**România**

Phone +40 356 171 120  
E-Mail office@sick.ro

**Russia**

Phone +7-495-775-05-30  
E-Mail info@sick.ru

**Schweiz**

Phone +41 41 619 29 39  
E-Mail contact@sick.ch

**Singapore**

Phone +65 6744 3732  
E-Mail sales.gsg@sick.com

**Slovenija**

Phone +386 (0)1-47 69 990  
E-Mail office@sick.si

**South Africa**

Phone +27 11 472 3733  
E-Mail info@sickautomation.co.za

**South Korea**

Phone +82 2 786 6321/4  
E-Mail info@sickkorea.net

**Suomi**

Phone +358-9-25 15 800  
E-Mail sick@sick.fi

**Sverige**

Phone +46 10 110 10 00  
E-Mail info@sick.se

**Taiwan**

Phone +886-2-2375-6288  
E-Mail sales@sick.com.tw

**Türkiye**

Phone +90 (216) 528 50 00  
E-Mail info@sick.com.tr

**United Arab Emirates**

Phone +971 (0) 4 8865 878  
E-Mail info@sick.ae

**USA/México**

Phone +1(952) 941-6780  
1 800-325-7425 – tollfree  
E-Mail info@sickusa.com

More representatives and agencies  
at [www.sick.com](http://www.sick.com)