



## Fotoprzełączniki W4S-3 Inox, Fotoprzełącznik odbiciowy, Tłumienie tła

WTB4S-3P3132V



Nazwa modelu > **WTB4S-3P3132V**

Numer części > **1046400**



*Produkt może różnić się od ilustracji*

#### At a glance

- WashDown rated for fluid tightness (IP 66, IP 67, IP 68 and IP 69K) and Ecolab certified
- Tough stainless steel housing (316L/1.4404)
- Resistant to a variety of common cleaning and disinfection agents
- Modern electrical connection available - M12 connector with pin casting
- Best background and extraneous light suppression in its class with OES3 technology and two emitter LED's
- Flexible sensing ranges and hysteresis settings
- Key lock function, remote teach, quality monitoring

#### Your benefits

- Long service life in harsh conditions ensures less downtime and fewer replacement costs
- OES3 technology and special optical design ensures reliable detection of objects at an extended range which ensures less machine downtime caused by faulty switching
- Quick and easy alignment due to highly visible PinPoint emitter LED
- Easy adjustment via a stainless steel metal membrane teach-in pushbutton
- Quick and easy format adjustment
- Easy monitoring of sensor status
- Key lock function and parameter download prevent incorrect settings
- Simple sensor cloning



#### Cechy

|                                            |                                          |
|--------------------------------------------|------------------------------------------|
| Zasada działania czujnika/Sposób detekcji: | Fotoprzełącznik odbiciowy, Tłumienie tła |
| Wymiary (Szer. x Wys. x Głęb.):            | 15,25 mm x 49,2 mm x 22,2 mm             |
| Housing design:                            | Washdown                                 |
| Housing design (light emission):           | Prostopadłościenna, Slim                 |
| Maks. strefa działania:                    | 4 mm ... 120 mm <sup>1)</sup>            |
| Sensing range:                             | 10 mm ... 120 mm                         |
| Rodzaj światła:                            | Widzialne światło czerwone               |
| Nadajnik światła:                          | Pin Point LED <sup>2)</sup>              |
| Długość fali:                              | 650 nm                                   |
| Teach-in:                                  | Single teach-in button                   |
| Nastawa:                                   | Teach-in                                 |
| Średnica plamki świetlnej (odległość):     | Ø 2,5 mm (50 mm)                         |

1) Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) 2) Average service life of 100,000 h at  $T_A = +25\text{ °C}$

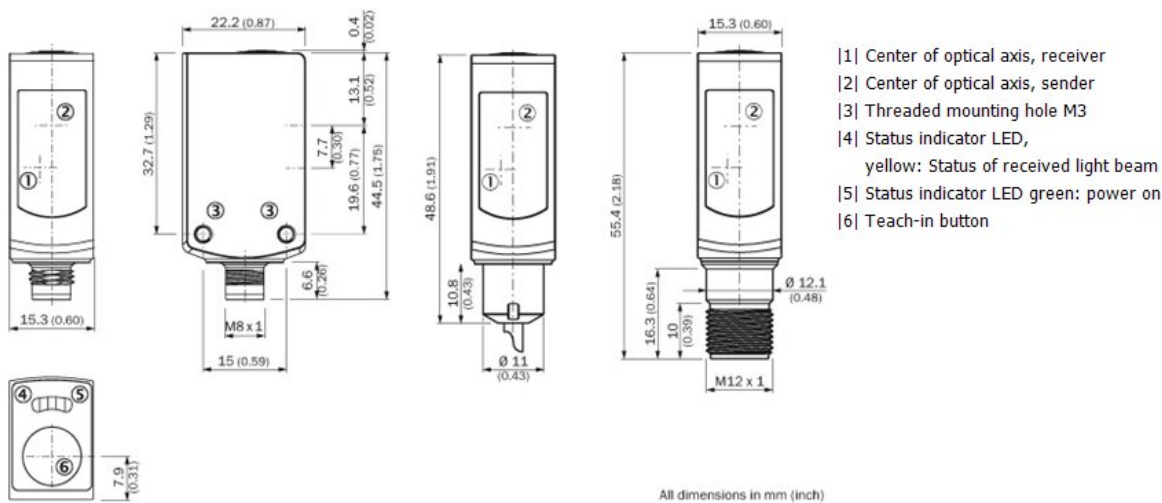
## Mechanika/elektronika

|                                   |                                                      |
|-----------------------------------|------------------------------------------------------|
| Napięcie zasilania:               | 10 V DC ... 30 V DC <sup>1)</sup>                    |
| Tętnienia resztkowe:              | < 5 Vss <sup>2)</sup>                                |
| Pobór prądu:                      | ≤ 30 mA <sup>3)</sup>                                |
| Switching output:                 | PNP                                                  |
| 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>                               |
| Typ połączenia:                   | Cable with connector M8, 3-pin, 150 mm <sup>6)</sup> |
| Cable material:                   | PVC                                                  |
| Układ zabezpieczenia:::           | A, B, C <sup>7)</sup> 8) 9)                          |
| Klasa ochronności:                | III                                                  |
| Ciężar:                           | 50 g                                                 |
| Special device:                   | -                                                    |
| Tworzywo, obudowa:                | Stainless steel, Stainless steel 316L                |
| Rodzaj zabezpieczenia:            | IP 66<br>IP 67<br>IP 68<br>IP 69K                    |
| Ambient operating temperature:    | -30 °C ... 60 °C, -30 °C ... 70 °C <sup>10)</sup>    |
| Ambient storage temperature:      | -30 °C ... 75 °C                                     |

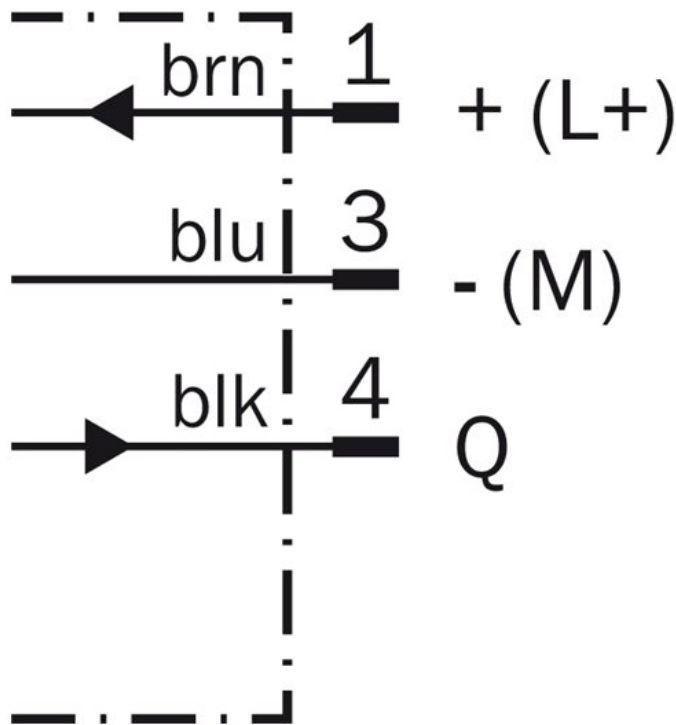
<sup>1)</sup> Limit values, reverse-polarity protected, operation in short-circuit protected network, max. 8 A <sup>2)</sup> May not exceed or fall short of  $V_S$  tolerances <sup>3)</sup> Bez obciążenia <sup>4)</sup>

Signal transit time with resistive load <sup>5)</sup> With light/dark ratio 1:1 <sup>6)</sup> Do not bend below 0 °C <sup>7)</sup> A =  $V_S$  connections reverse-polarity protected <sup>8)</sup> B = inputs and output reverse-polarity protected <sup>9)</sup> C = interference suppression <sup>10)</sup> At UV ≤ 24 V and I<sub>A</sub> < 30 mA

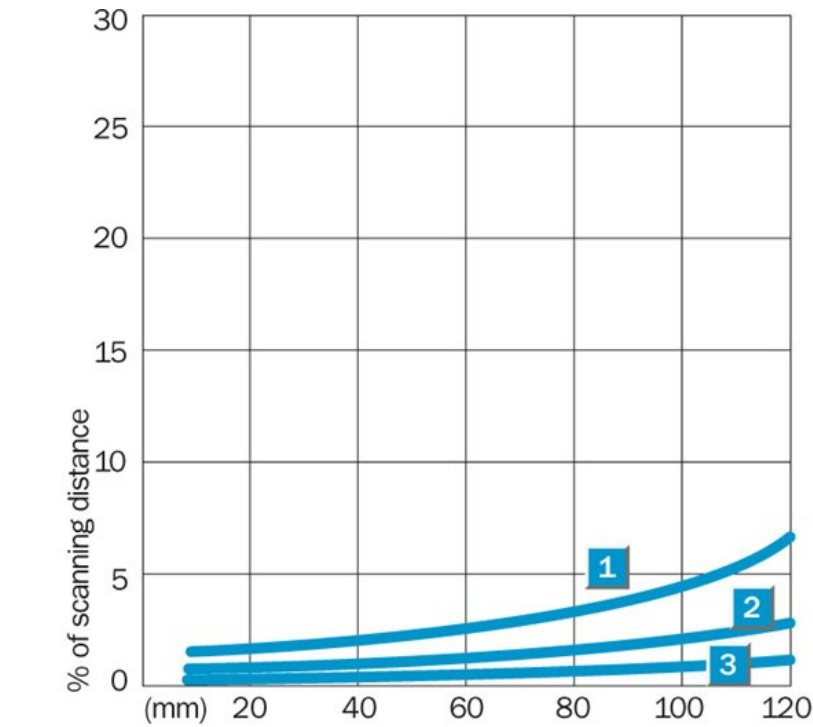
Dimensional drawing



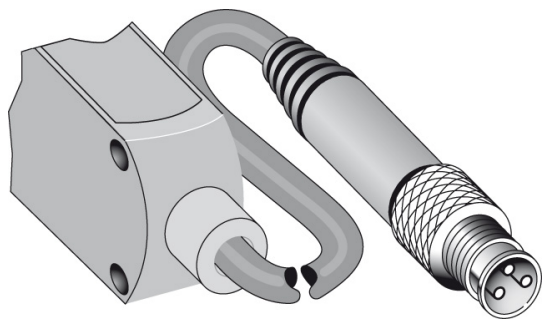
Connection diagram



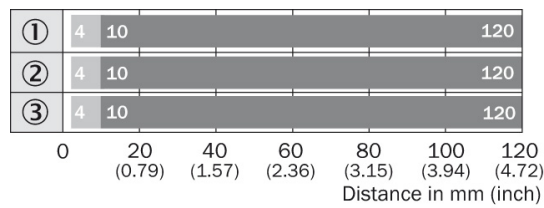
Characteristic curve



Connection type



Sensing range diagram



■ Operating distance    ■ Sensing distance max. typ.

- ① Sensing distance on black, 6 % remission
- ② Sensing distance on grey, 18 % remission
- ③ Sensing distance on white, 90 % remission

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