



## Fotoprzekaźniki W34, Fotoprzekaźnik odbiciowy, Tłumienie tła

WT34-B410



Nazwa modelu > **WT34-B410**

Numer części > **1019229**



#### At a glance

- Precise background suppression at long ranges
- Immune to ambient light and crosstalk from another sensor
- Switch selectable PNP or NPN output and light/dark switching
- Versions with DC voltage (10...30V) or universal AC/DC voltage (12 ... 240 V DC / 24 ... 240 V AC)
- Optional test input, adjustable ON and OFF time delays, alarm output
- M12 or terminal chamber connection: 90° rotatable
- UL approval

#### Your benefits

- Versions with IR LED provide precise object detection at sensing ranges of 2500 mm
- Immune to ambient light and crosstalk from another sensor, providing reliable operation and less downtime
- The sensor cover protects configuration components against environmental hazards
- Adjustable time delay, alarm output, test input, and universal AC/DC voltage provide additional flexibility and reduce the number of part numbers needed



#### Cechy

|                                            |                                          |
|--------------------------------------------|------------------------------------------|
| Wymiary (Szer. x Wys. x Głęb.):            | 27 mm x 92 mm x 70 mm                    |
| Maks. strefa działania:                    | 100 mm ... 2.500 mm <sup>1)</sup>        |
| Sensing range:                             | 100 mm ... 2.500 mm                      |
| Housing desig (light emission):            | Prostopadłościenna                       |
| Nadajnik światła:                          | LED <sup>2)</sup>                        |
| Rodzaj światła:                            | Światło podczerwone                      |
| Adjustment of operating distance:          | Potentiometer                            |
| Zasada działania czujnika/Sposób detekcji: | Fotoprzełącznik odbiciowy, Tłumienie tła |
| Light spot (distance):                     | 80 mm (2.500 mm)                         |

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

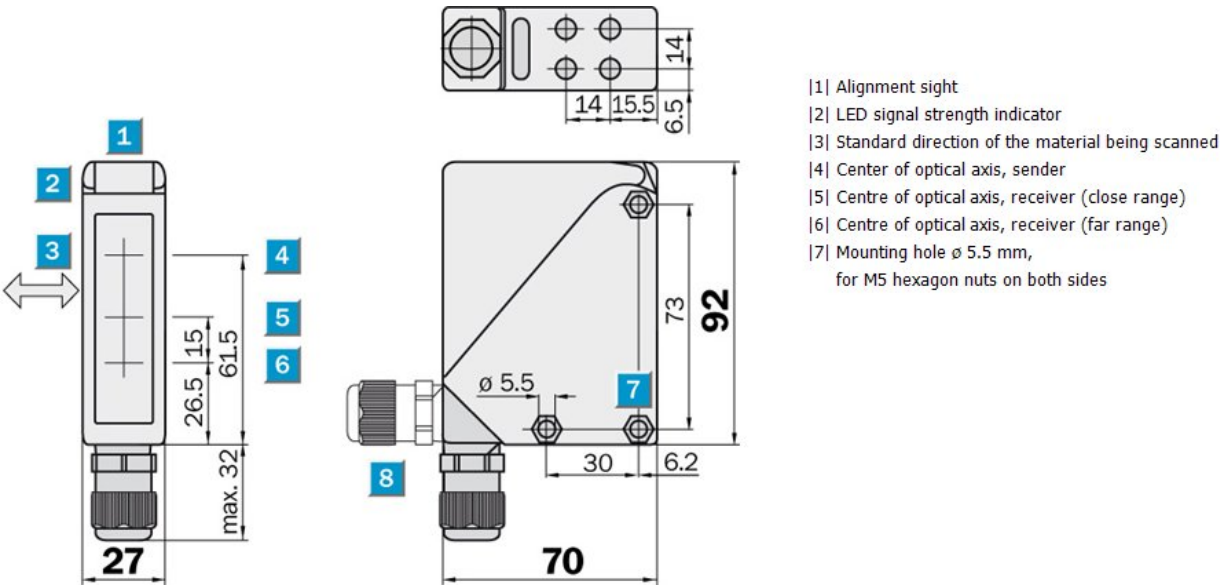
#### Mechanika/elektronika

|                        |                       |
|------------------------|-----------------------|
| Rodzaj zabezpieczenia: | IP 67                 |
| Napięcie zasilania:    | 10 V DC ... 30 V DC   |
| Tętnienia resztkowe:   | < 5 Vss <sup>2)</sup> |

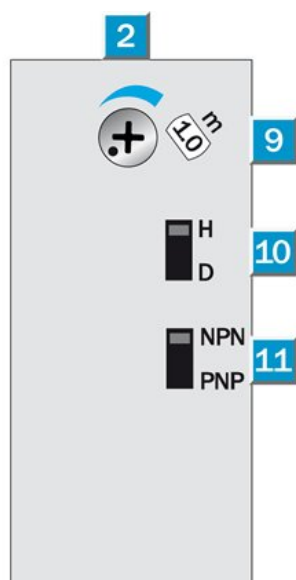
|                                      |                                                                                                                  |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Pobór prądu:                         | ≤ 50 mA                                                                                                          |
| Wyjście przełączające:               | NPN, light switching, selectable via PNP/NPN selector<br>PNP, Dark-switching, selectable via light/dark selector |
| Output current I <sub>max</sub> ..:  | 100 mA                                                                                                           |
| Czas reakcji:                        | ≤ 500 μs <sup>3)</sup>                                                                                           |
| Switching frequency:                 | 1.000 Hz <sup>4)</sup>                                                                                           |
| Typ połączenia:                      | Wtyk M12, 4-pinowe <sup>5)</sup>                                                                                 |
| Klasa ochronności:                   | II <sup>6)</sup>                                                                                                 |
| Układ zabezpieczenia:::              | A<br>C 7) 8) 9)<br>D                                                                                             |
| Ciężar:                              | 140 g                                                                                                            |
| Tworzywo, obudowa:                   | ABS                                                                                                              |
| Ambient temperature, operation:      | -40 °C ... 60 °C                                                                                                 |
| Ambient temperature, storage:        | -40 °C ... 75 °C                                                                                                 |
| Wejście testowe, nadajnik wyłączony: | TE to 0 V                                                                                                        |

<sup>1)</sup> Limit values    <sup>2)</sup> May not exceed or fall short of V<sub>S</sub>    <sup>3)</sup> Signal transit time with resistive load    <sup>4)</sup> With light/dark ratio 1:1    <sup>5)</sup> Connection rotatable by 90°    <sup>6)</sup> Reference voltage 50 V DC    <sup>7)</sup> A = V<sub>S</sub> connections reverse-polarity protected    <sup>8)</sup> C = interference suppression    <sup>9)</sup> D = outputs overcurrent and short-circuit protected

**Dimensional drawing**

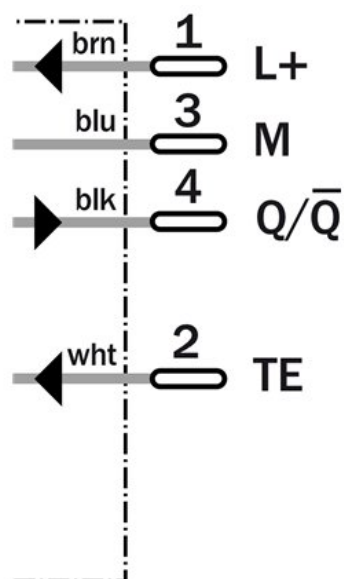


## Einstell-Möglichkeiten

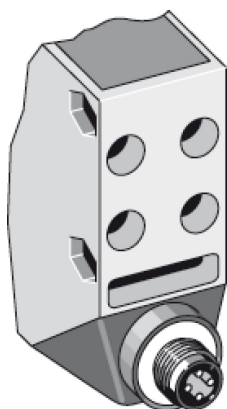


- |2| Receive indicator
- |9| Sensing distance adjustment
- |10| Light/ dark selector
- |11| NPN/ PNP selector

## Connection diagram



## Connection type



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