



## Fotoprzełączniki W45, Fotoprzełącznik odbiciowy, Tłumienie tła

WT45-N260



Nazwa modelu > **WT45-N260**

Numer części > **1009109**



Produkt może różnić się od ilustracji

#### At a glance

- Long background suppression sensing range
- Rugged metal housing
- Optional: Powerful front lens heating
- Optional test input and time delays
- Variants for 10 - 60 V DC or 24 - 240 V DC / 24 - 240 V AC voltage supply
- IR emitter

#### Your benefits

- Very large sensing distance
- Rugged metal housing ensures a long service life in harsh industrial environments
- Front lens heating prevents condensation for reliable operation in outdoor applications.
- Multiple functions for simpler integration of individual systems
- Variants DC voltage and universal AC/DC voltage provides installation flexibility due to same housing



#### Cechy

|                                            |                                                                          |
|--------------------------------------------|--------------------------------------------------------------------------|
| Zasada działania czujnika/Sposób detekcji: | Fotoprzełącznik odbiciowy, Tłumienie tła                                 |
| Wymiary (Szer. x Wys. x Głęb.):            | 60 mm x 105 mm x 105 mm                                                  |
| Housing design (light emission):           | Prostopadłościenna                                                       |
| Maks. strefa działania:                    | 200 mm ... 2.000 mm <sup>1)</sup>                                        |
| Sensing range:                             | 200 mm ... 2.000 mm                                                      |
| Rodzaj światła:                            | Światło podczerwone                                                      |
| Nadajnik światła:                          | LED <sup>2)</sup>                                                        |
| Typ czasu:                                 | Time delay off, ON and OFF delay, Przełącznik z opóźniaczem              |
| Czas opóźnienia:                           | 0,015 ... 0,3 s, Adjustable via time delay selector switch: 0,5 ... 12 s |
| Nastawa:                                   | Potentiometer                                                            |
| Średnica plamki świetlnej (odległość):     | Ø 35 mm (2.000 mm)                                                       |

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

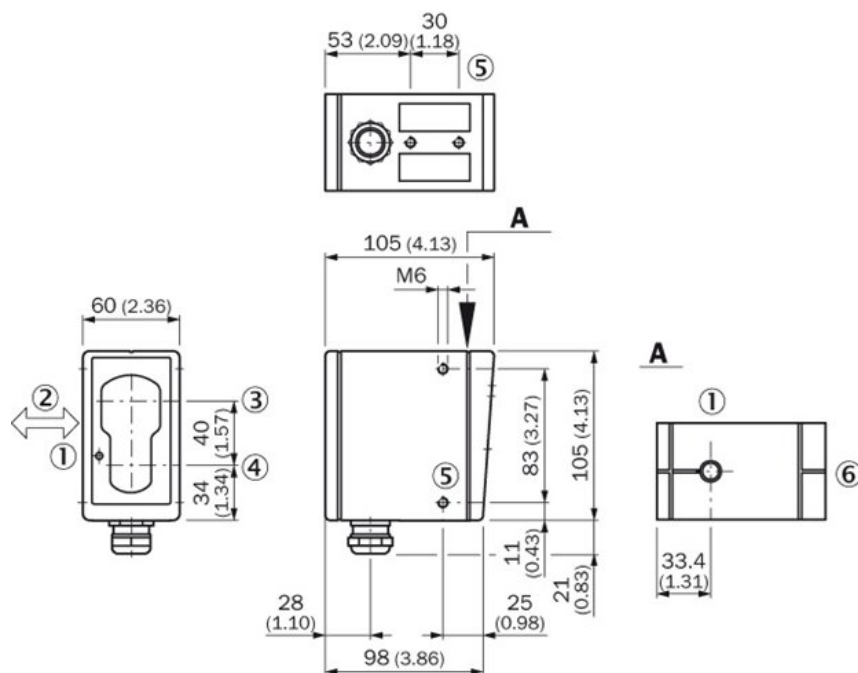
#### Mechanika/elektronika

|                        |                                   |
|------------------------|-----------------------------------|
| Napięcie zasilania:    | 10 V DC ... 60 V DC <sup>1)</sup> |
| Tętnienia resztkowe:   | ≤ 5 Vss <sup>2)</sup>             |
| Pobór prądu:           | ≤ 50 mA <sup>3)</sup>             |
| Wyjście przełączające: | NPN                               |

|                                      |                                        |
|--------------------------------------|----------------------------------------|
| Tryb przełączania:                   | Komplementarne                         |
| Tryb przełączania:                   | Przełączanie jasno/ciemno, wybierane   |
| Output current I <sub>max</sub> :    | 200 mA                                 |
| Czas reakcji:                        | ≤ 6 ms <sup>4)</sup>                   |
| Switching frequency:                 | 50 Hz <sup>5)</sup>                    |
| Sposób przyłączenia:                 | Terminal connection with PG13,5, 6-pin |
| Układ zabezpieczenia:::              | A, C, D <sup>6) 7) 8)</sup>            |
| Klasa ochronności:                   | I <sup>9)</sup>                        |
| Ciężar:                              | 800 g                                  |
| Ogrzewanie przedniej szyby:          | -                                      |
| Tworzywo, obudowa:                   | Metal                                  |
| Rodzaj zabezpieczenia:               | IP 67                                  |
| Wejście testowe, nadajnik wyłączony: | TE to VS                               |
| Ambient operating temperature:       | -25 °C ... 55 °C <sup>10)</sup>        |
| Ambient storage temperature:         | -40 °C ... 70 °C                       |
| UL File No.:                         | NRKH.E181493 & NRKH7.E181493           |

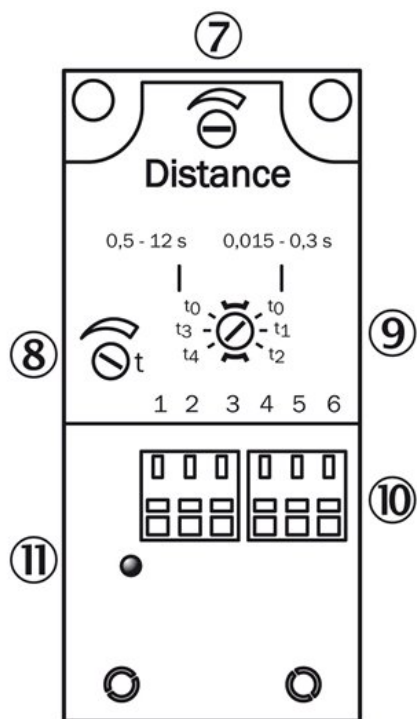
1) Limit values 2) May not exceed or fall short of V<sub>S</sub> tolerances 3) Bez obciążenia 4) Signal transit time with resistive load 5) With light/dark ratio 1:1 6) A = V<sub>S</sub>  
connections reverse-polarity protected 7) C = interference suppression 8) D = outputs overcurrent and short-circuit protected 9) Reference voltage 50 V DC 10) Up to  
140 °C with cooling plates (see accessories)

## Dimensional drawing



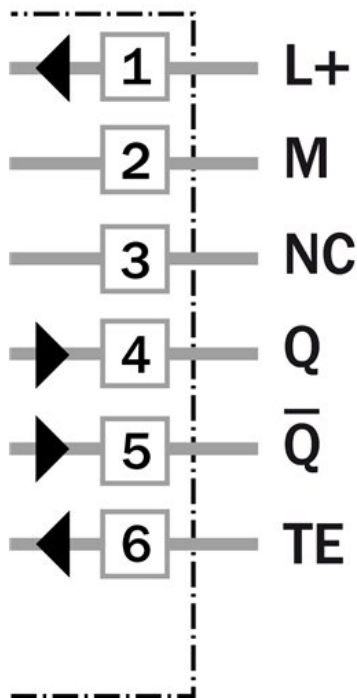
- [1] LED signal strength indicator
- [2] Standard direction of the material being scanned
- [3] Center of optical axis, receiver
- [4] Centre of transmitter's optical axis
- [5] M6 threaded mounting hole, 8 mm deep
- [6] Alignment sight

Adjustments possible

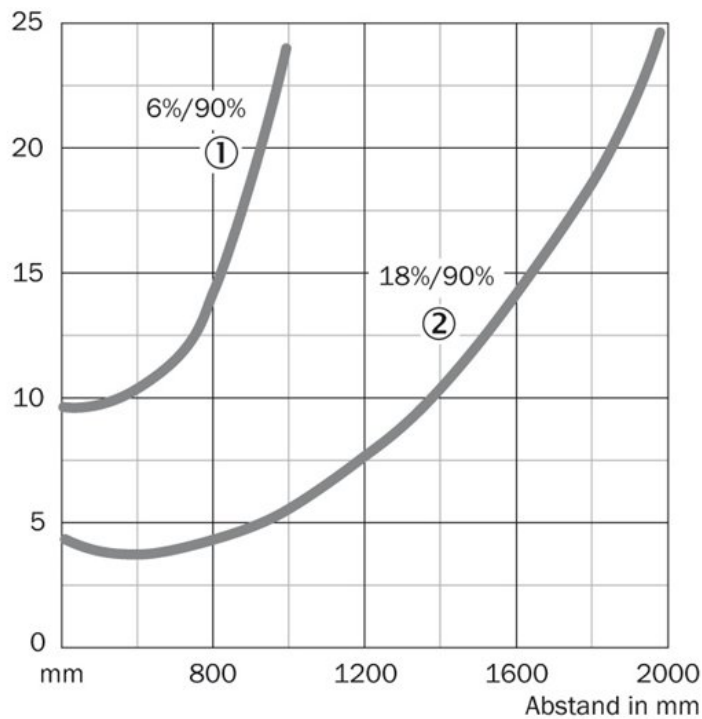


- |7| Sensing range adjustment
- |8| Time control
- |9| time delay selector switch
- |10| terminal strip
- |11| Status indicator

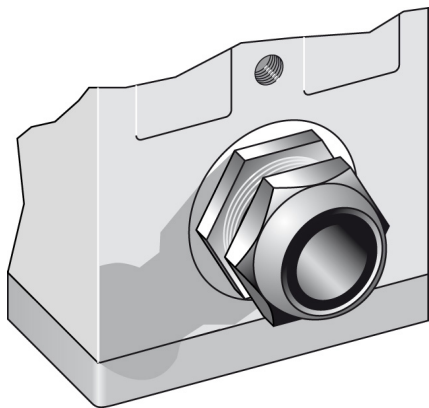
Connection diagram



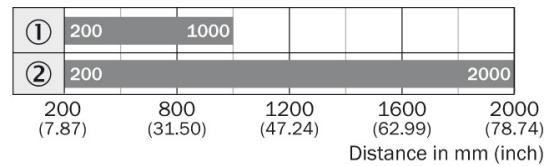
Characteristic curve



Connection type



Sensing range diagram



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

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