



Fotoprzełączniki W45, Fotoprzełącznik refleksyjny, Standard optics

WL45-N250



Nazwa modelu > **WL45-N250**

Numer części > **1008839**



Produkt może różnić się od ilustracji

At a glance

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

Your benefits

- A long, 55 m sensing range with a high operating reserve ensures reliable continuous operation
- 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
- Easy alignment due to visible red light



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik refleksyjny, Standard optics
Wymiary (Szer. x Wys. x Głęb.):	60 mm x 105 mm x 105 mm
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania:	1 m ... 55 m ¹⁾
Sensing range:	1 m ... 45 m ²⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	LED ³⁾
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 230 mm (16 m)

1) 2) OP60-00³⁾ Average service life of 100,000 h at $T_A = +25^\circ\text{C}$

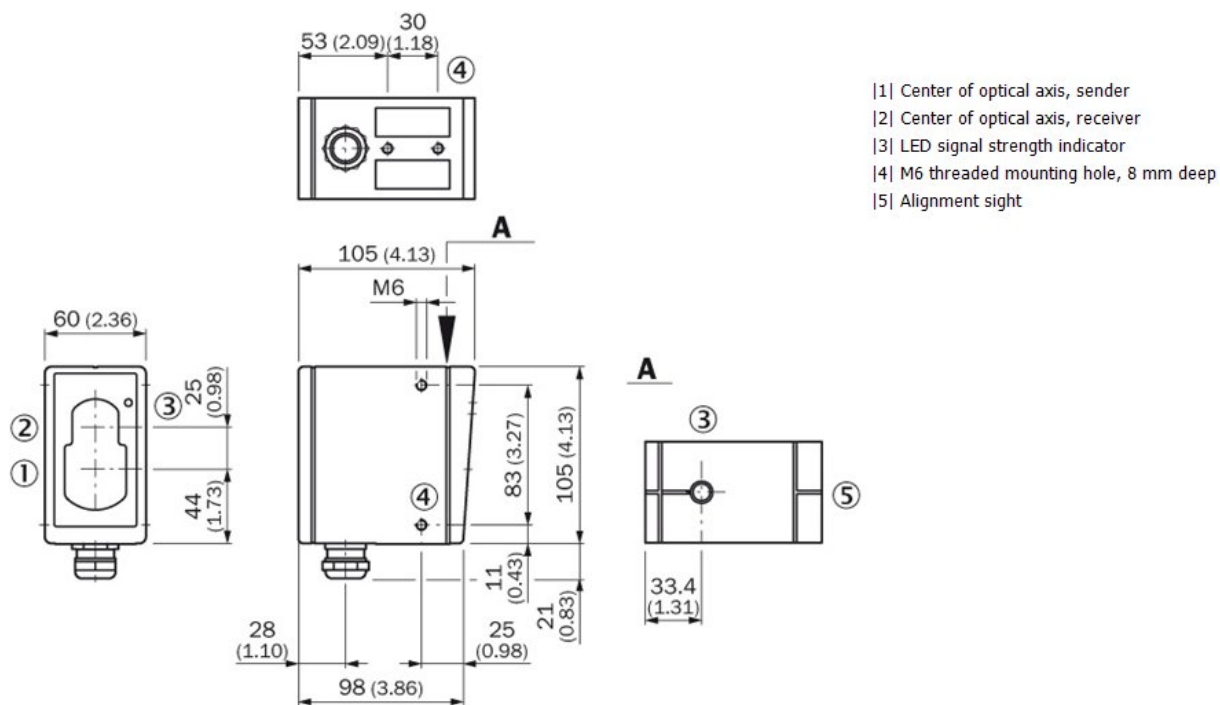
Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 60 V DC ¹⁾
Tętnienia resztkowe:	$\leq 5 \text{ Vss}$ ²⁾
Current consumption:	$\leq 250 \text{ mA}$ ³⁾

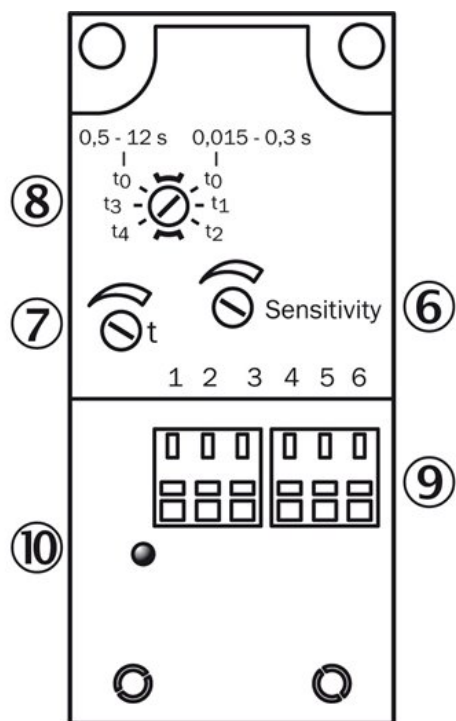
Wyjście przełączające:	NPN
Tryb przełączania:	Komplementarne
Tryb przełączania:	Przełączanie jasno/ciemno, wybierane
Output current I _{max} :	200 mA
Czas reakcji:	≤ 1,2 ms ⁴⁾
Switching frequency:	400 Hz ⁵⁾
Sposób przyłączenia:	Terminal connection with PG13,5, 6-pin
Układ zabezpieczenia:::	A, C, D ⁶⁾ ⁷⁾ ⁸⁾
Klasa ochronności:	I ⁹⁾
Ciężar:	800 g
Filtr polaryzacyjny:	✓
Ogrzewanie przedniej szyby:	✓
Alarm output:	100 mA, open collector ¹⁰⁾
Tworzywo, obudowa:	Metal
Rodzaj zabezpieczenia:	IP 67
Funkcje specjalne:	Dark-switching (pre-setting)
Wejście testowe, nadajnik wyłączony:	TE to VS
Ambient operating temperature:	-25 °C ... 55 °C ¹¹⁾
Ambient storage temperature:	-40 °C ... 70 °C

¹⁾ Limit values ²⁾ May not exceed or fall short of V_S tolerances ³⁾ Bez obciążenia ⁴⁾ Signal transit time with resistive load ⁵⁾ With light/dark ratio 1:1 ⁶⁾ A = V_S
 connections reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ D = outputs overcurrent and short-circuit protected ⁹⁾ Reference voltage 50 V DC ¹⁰⁾
 Flashes at approx. 5 Hz, switch to VS ¹¹⁾ Up to 140 °C with cooling plates (see accessories)

Dimensional drawing

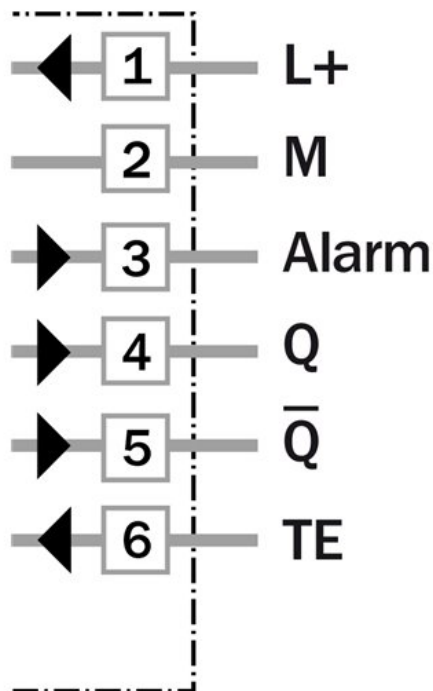


Adjustments possible

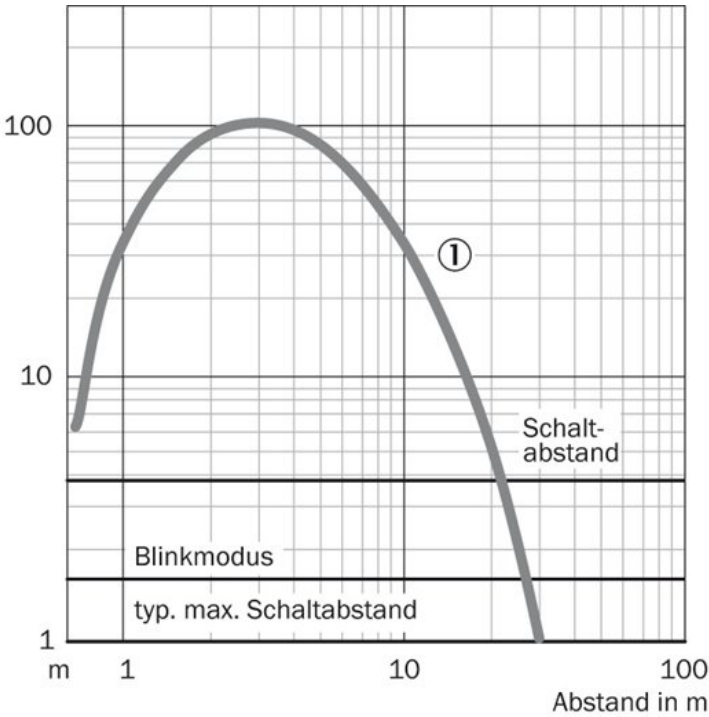


- |6| Sensitivity adjustment
- |7| Time control
- |8| time delay selector switch
- |9| terminal strip
- |10| Status indicator

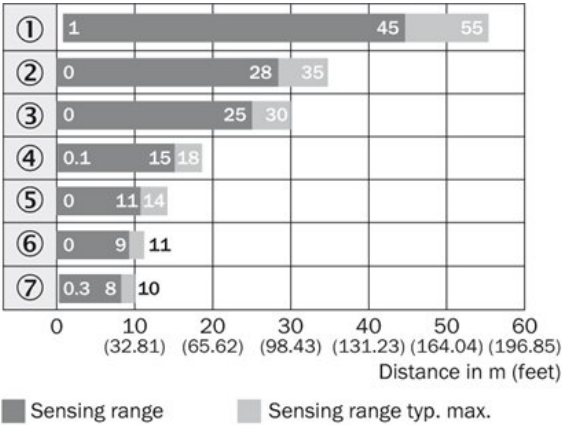
Connection diagram



Characteristic curve



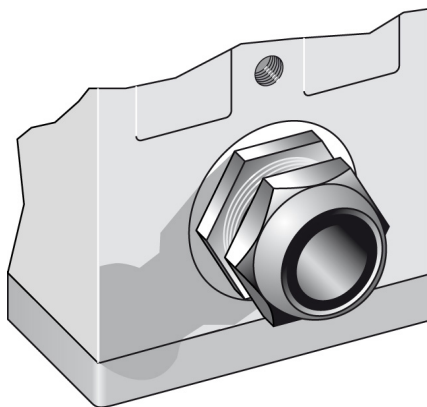
Sensing range diagram



Reflector type

- ① OP60 ... ∞
- ② 4 x PL80
- ③ PL80A
- ④ C110
- ⑤ PL50
- ⑥ PL30
- ⑦ Reflective tape Diamond Grade

Connection type



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