



Fotoprzełączniki W34, Fotoprzełącznik odbiciowy, Tłumienie tła

WT34-R250



SICK
Sensor Intelligence.

Nazwa modelu > **WT34-R250**

Numer części > **1019240**



Produkt może różnić się od ilustracji

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

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, Tłumienie tła
Wymiary (Szer. x Wys. x Głęb.):	27 mm x 92 mm x 70 mm
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania:	100 mm ... 1.200 mm ¹⁾
Sensing range:	100 mm ... 1.200 mm
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	LED ²⁾
Długość fali:	660 nm
Light spot diameter (distance):	Ø 40 mm (1.200 mm)
Adjustment of operating distance:	Potentiometer
Typ czasu:	Time delay off
Czas opóźnienia:	Adjustable via time delay selector switch: 0,5 ... 10 s

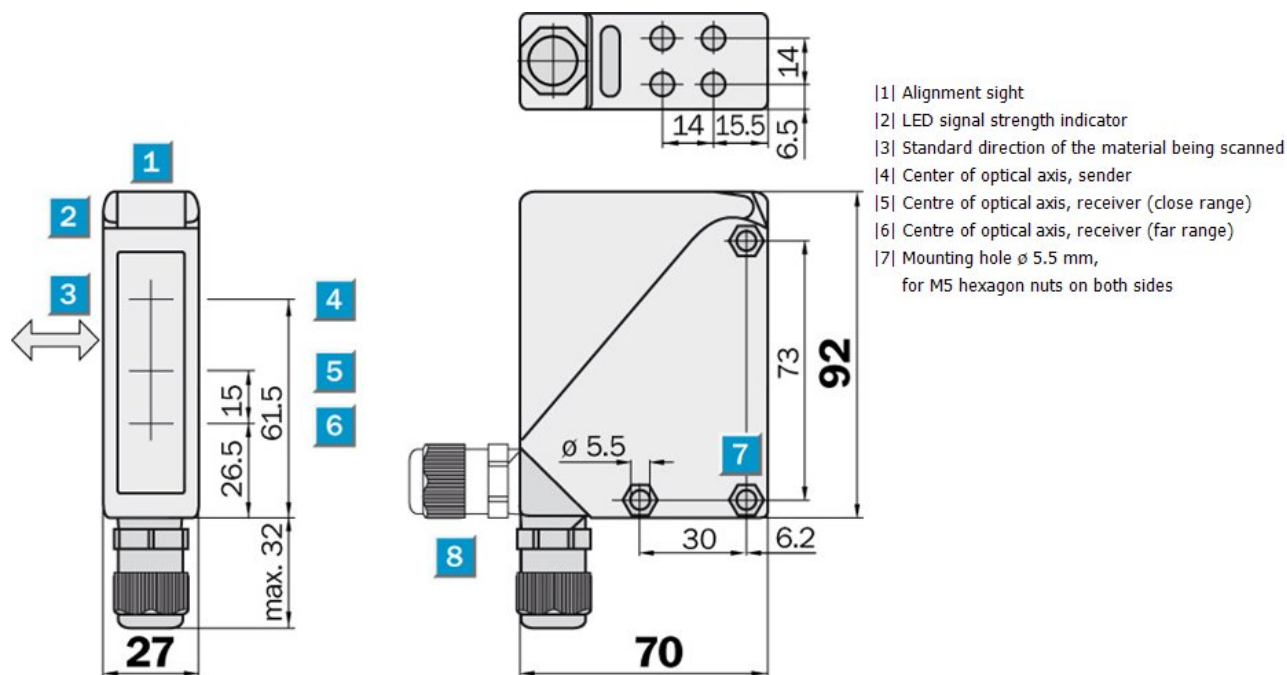
¹⁾ Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) ²⁾ Average service life 100,000 h at Ta = +25 °C

Mechanika/elektronika

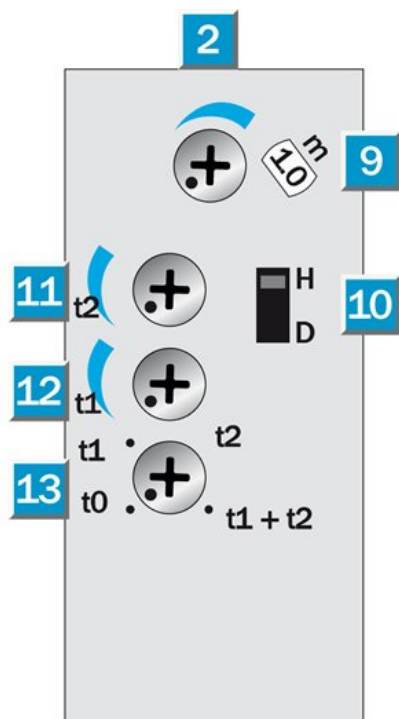
Napięcie zasilania::	12 V DC ... 240 V DC, 24 ... 240 V AC ^{1) 2)}
Pobór mocy:	< 2 VA
Wyjście przełączające:	Relay
Tryb przełączania:	Change-over contacts
Tryb przełączania:	Dark-switching, Przełączanie na jasnym ³⁾
Output characteristic:	Electrically isolated
Switching mode selector:	Selectable via light/dark selector
Maks. prąd łączeniowy:	4 A (24 V DC), 4 A (250 V AC)
Czas reakcji:	≤ 10 ms
Switching frequency:	10 Hz ⁴⁾
Sposób przyłączenia:	Terminal connection with M16 gland ⁵⁾
Układ zabezpieczenia:	A, C ^{6) 7)}
Klasa ochronności:	II ⁸⁾
Ciężar:	140 g
Special device:	-
Tworzywo, obudowa:	ABS
Rodzaj zabezpieczenia:	IP 67
Usage category:	AC-15, DC-13, According to EN 60947-1
Ambient operating temperature:	-40 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 75 °C
UL File-No.:	UL No. NRKH.E181493 & cUL No. NRKH7.E181493

¹⁾ Limit values ²⁾ ±10 % ³⁾ Provide suitable spark suppression for inductive or capacitive loads ⁴⁾ With light/dark ratio 1:1 ⁵⁾ Connection rotatable by 90° ⁶⁾ A = V_S
 connections reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ Rated voltage 250 V AC/DC

Dimensional drawing

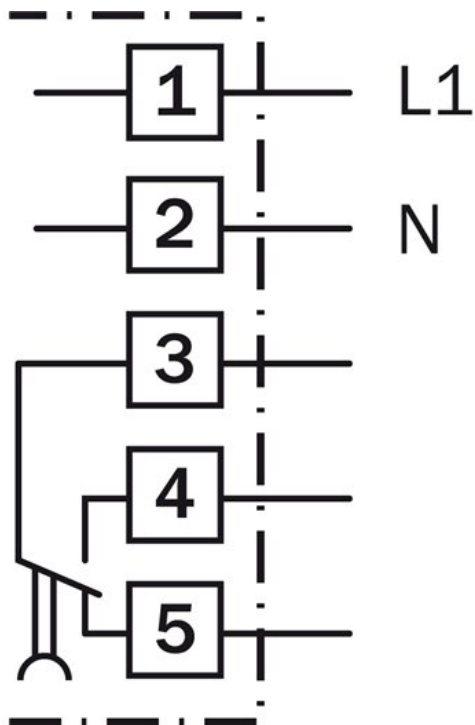


Adjustments possible

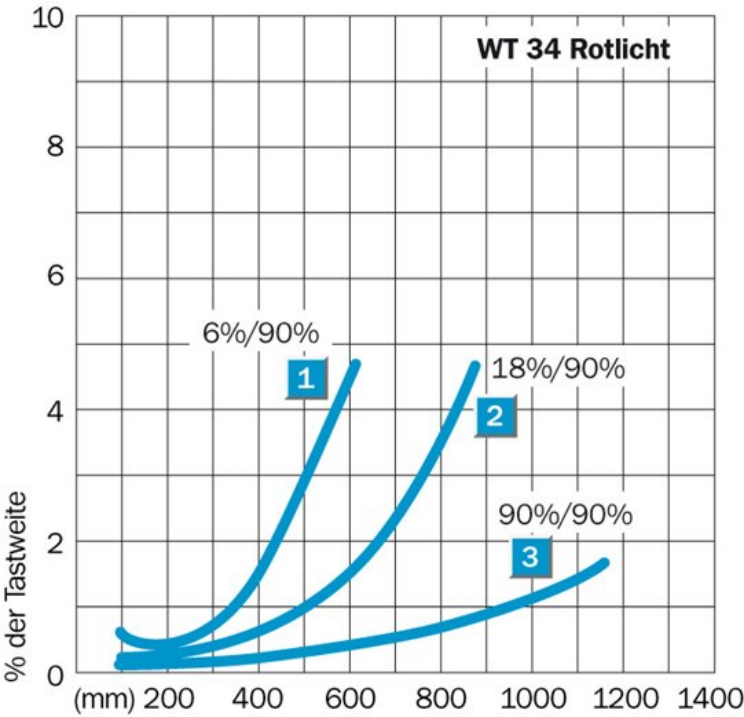


- |2| LED signal strength indicator
- |9| Sensing distance adjustment
- |10| Light/dark selector
- |11| Time control t2=OFF-delay
- |12| Time control t1=ON-delay
- |13| time delay selector switch

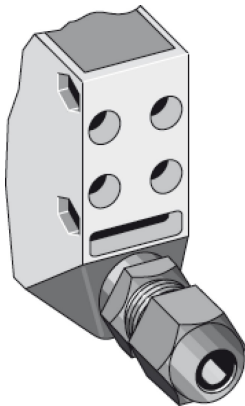
Connection diagram



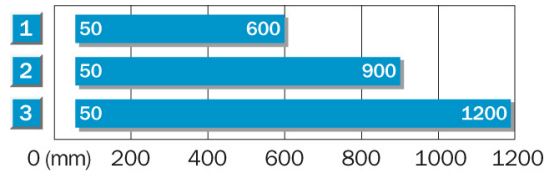
Characteristic curve



Connection type



Sensing range diagram



1	Scanning distance on black ⁹⁾
2	Scanning distance on grey ⁹⁾
3	Scanning distance on white ⁹⁾

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