



Fotoprzełączniki W34, Fotoprzełącznik odbiciowy, Tłumienie tła

WT34-R220



SICK
Sensor Intelligence.

Nazwa modelu > **WT34-R220**

Numer części > **1019233**



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

Wymiary (Szer. x Wys. x Głęb.):	27 mm x 92 mm x 70 mm
Maks. strefa działania:	100 mm ... 2.500 mm ¹⁾
Sensing range:	100 mm ... 2.500 mm
Housing desig (light emission):	Prostopadłościenna
Nadajnik światła:	LED ²⁾
Rodzaj światła:	Światło podczerwone
Czas opóźnienia:	Adjustable via time delay selector switch: 0,5 ... 10 s
Adjustment of operating distance:	Potentiometer
Typ czasu:	Time delay off switch on delay adjustable
Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, Tłumienie tła
Light spot (distance):	80 mm (2.500 mm)

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

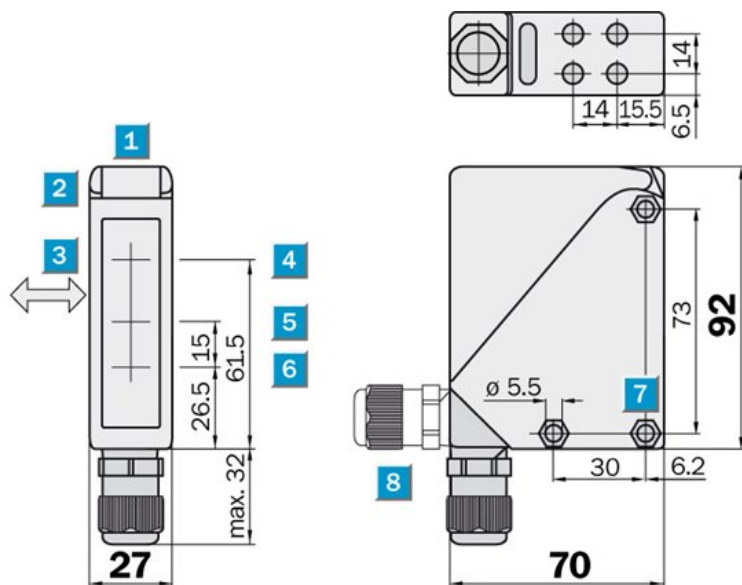
Mechanika/elektronika

Rodzaj zabezpieczenia:	IP 67
Napięcie zasilania::	12 V DC ... 240 V DC 24 ... 240 V AC
Wyjście przełączające:	Relay, light switching, selectable via light/dark selector, change-over contacts, electrically isolated 3 Dark-switching
Czas reakcji:	≤ 10 ms
Switching frequency:	10 Hz ⁴⁾
Typ połączenia:	Terminal connection with M16 gland ⁵⁾
Klasa ochronności:	II ⁶⁾
Układ zabezpieczenia::	A C ⁸⁾
Ciężar:	140 g
Tworzywo, obudowa:	ABS
Ambient temperature, operation:	-40 °C ... 60 °C
Ambient temperature, storage:	-40 °C ... 75 °C
Pobór mocy:	< 2 VA
Maks. prąd łączeniowy:	4 A (250 V AC) 4 A (24 V DC)

Usage category: AC-15, DC-13, according to EN 60947-1

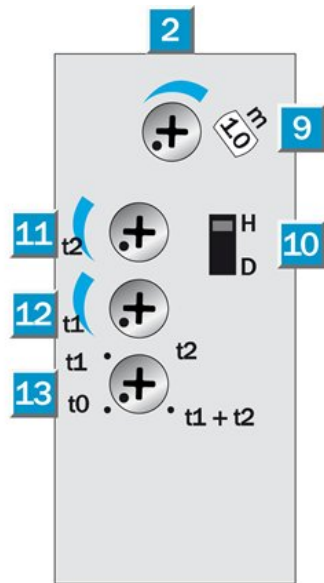
1) Limit values 2) ±10 % 3) Provide suitable spark suppression for inductive or capacitive loads 4) With light/dark ratio 1:1 5) Connection rotatable by 90° 6) Rated voltage 250 V AC/DC 7) A = V_S connections reverse-polarity protected 8) C = interference suppression

Dimensional drawing



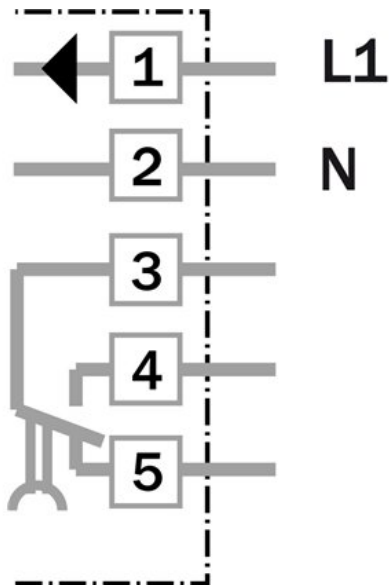
- [1] Alignment sight
- [2] LED signal strength indicator
- [3] Standard direction of the material being scanned
- [4] Center of optical axis, sender
- [5] Centre of optical axis, receiver (close range)
- [6] Centre of optical axis, receiver (far range)
- [7] Mounting hole ø 5.5 mm, for M5 hexagon nuts on both sides
- [8] Mounting hole ø 5.5 mm, for M5 hexagon nuts on both sides

Einstell-Möglichkeiten

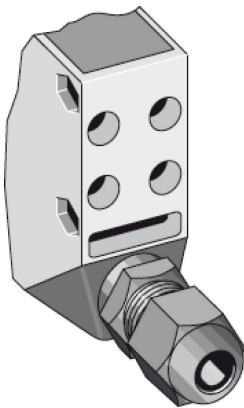


- |2| LED signal strength indicator
- |9| Sensing distance adjustment
- |10| Light/ dark selector
- |11| Time control t2=OFF-delay
- |12| Time control t1=ON-delay
- |13| time delay selector switch

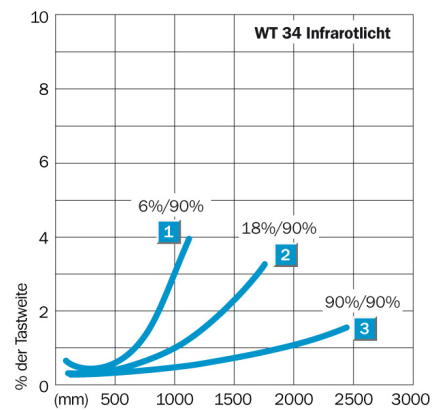
Connection diagram



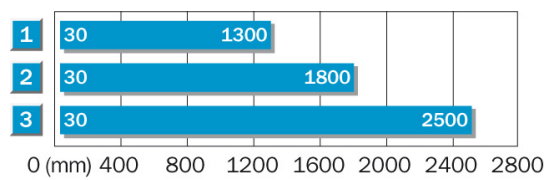
Connection type



Characteristic curve



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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