



Fotoprzełączniki W34, Fotoprzełącznik odbiciowy, Tłumienie tła

WT34-B420



SICK
Sensor Intelligence.

Nazwa modelu > **WT34-B420**

Numer części > **1019230**



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 ... 2.500 mm ¹⁾
Sensing range:	100 mm ... 2.500 mm
Rodzaj światła:	Światło podczerwone
Nadajnik światła:	LED ²⁾
Light spot diameter (distance):	Ø 80 mm (2.500 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

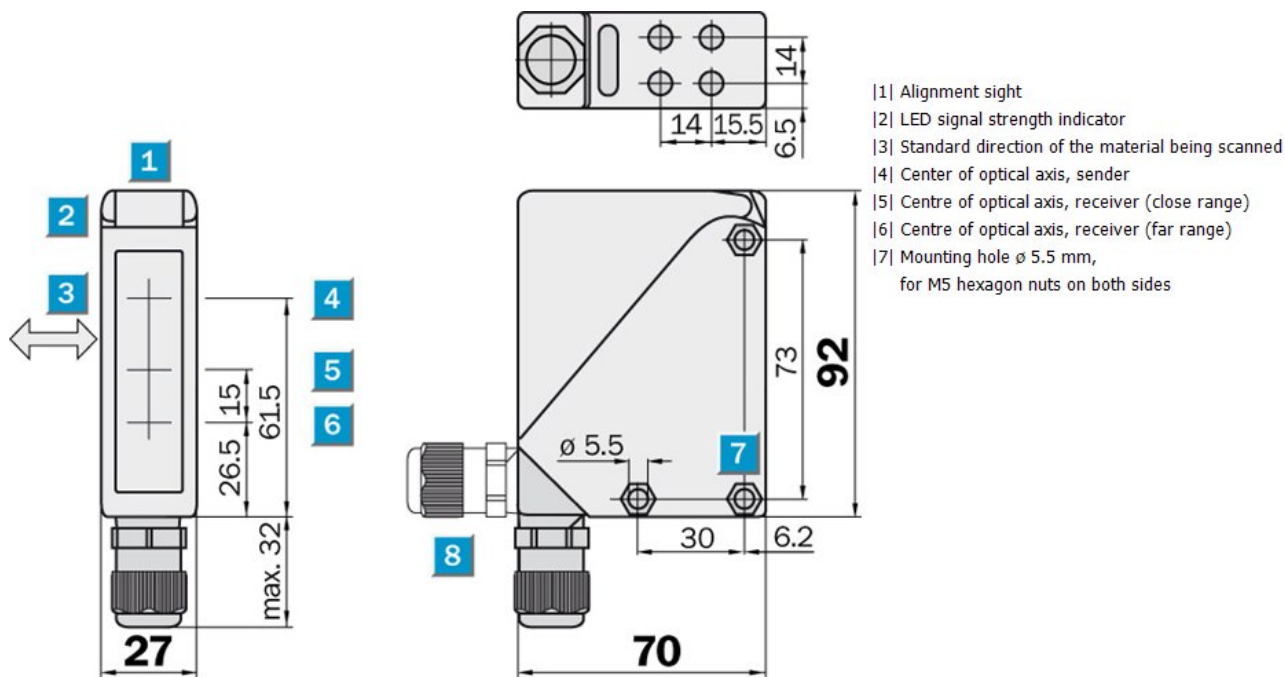
Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	< 5 Vss ²⁾

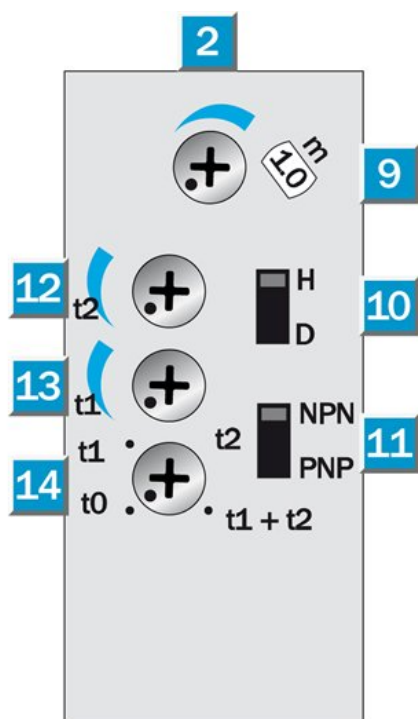
Pobór prądu:	≤ 50 mA
Wyjście przełączające:	NPN, PNP
Tryb przełączania:	Dark-switching, Przełączanie na jasnym
Switching mode selector:	Selectable via light/dark selector, Selectable via PNP/NPN selector
Output current I _{max} ..:	100 mA
Czas reakcji:	≤ 500 μs ³⁾
Switching frequency:	1.000 Hz ⁴⁾
Sposób przyłączenia:	Connector M12, 4-pin ⁵⁾
Układ zabezpieczenia:::	A, C, D ⁶⁾ ⁷⁾ ⁸⁾
Klasa ochronności:	II ⁹⁾
Ciężar:	140 g
Special device:	-
Tworzywo, obudowa:	ABS
Rodzaj zabezpieczenia:	IP 67
Wejście testowe, nadajnik wyłączony:	TE to 0 V
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⁾ May not exceed or fall short of V_S ³⁾ Signal transit time with resistive load 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⁾ D = outputs overcurrent and short-circuit protected ⁹⁾ Reference voltage 50 V DC

Dimensional drawing

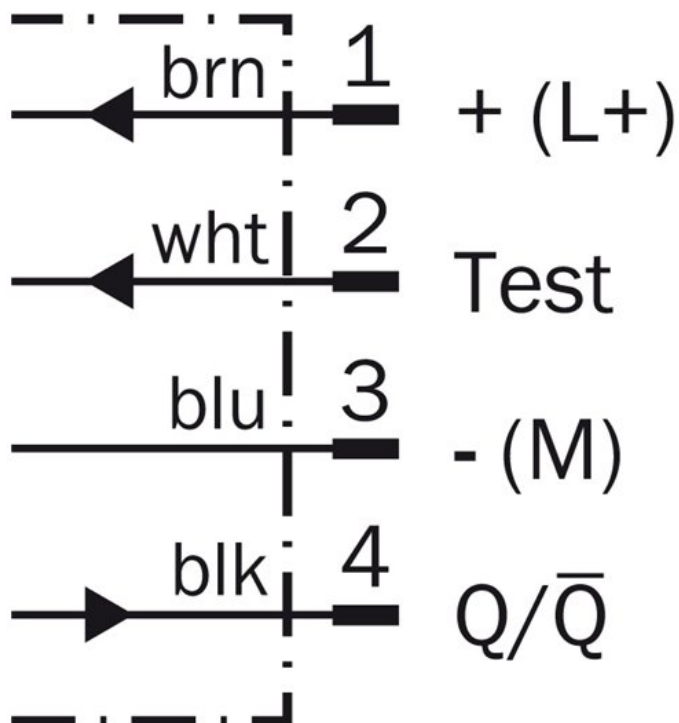


Adjustments possible

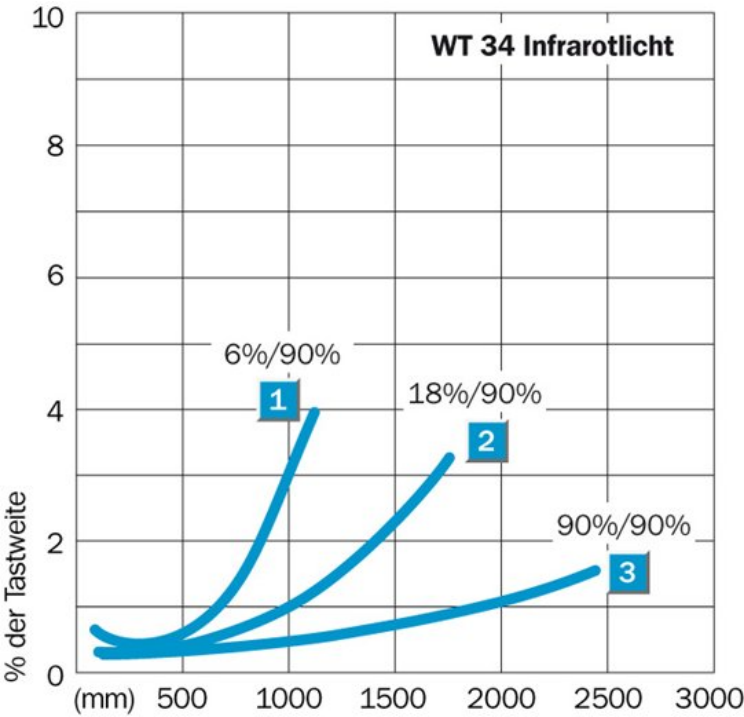


- |2| LED signal strength indicator
- |9| Sensing distance adjustment
- |10| Light/dark selector
- |11| NPN/ PNP selector
- |12| Time control t2=OFF-delay
- |13| Time control t1=ON-delay
- |14| time delay selector switch

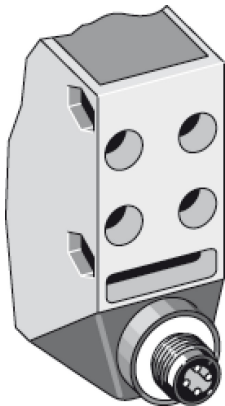
Connection diagram



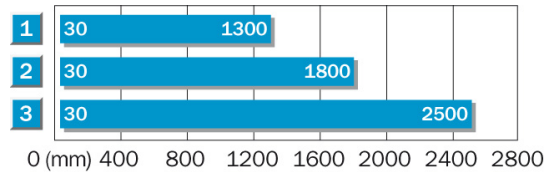
Characteristic curve



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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