



Fotoprzełączniki W11-2, Fotoprzełącznik odbiciowy, Tłumienie tła

WTB11-2N1131



Nazwa modelu > **WTB11-2N1131**

Numer części > **1041379**



Produkt może różnić się od ilustracji

At a glance

- Precise background suppression
- Rugged housing for industrial use
- PinPoint LED technology with a highly visible light spot
- Space-saving plastic housing in chemically, thermally or mechanically resistant designs
- Dovetail mounting - standard mounting holes and oblong holes
- Highly visible 360° status LEDs
- Sensing distance adjustment via potentiometer
- Operating distance up to 1,100 mm

Your benefits

- State of the art technology e.g OES-3 provides, reliable background suppression and object detection, independent of object color
- High immunity to optical inference reduces false readings and downtime
- PinPoint LED technology provides a bright, small and precise light spot that enables easy sensor alignment
- Precise switching characteristics ensure high performance even in changing application conditions
- Highly visible 360° status LEDs provide quick and easy setup without additional personnel or costly training
- Rugged housing design withstands harsh environments, reducing downtime and maintenance effort
- Easy installation using SICK accessories



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, Tłumienie tła
Wymiary (Szer. x Wys. x Głęb.):	15,6 mm x 48,5 mm x 42 mm
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania:	20 mm ... 350 mm ¹⁾
Sensing range:	20 mm ... 350 mm
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	LED ²⁾
Długość fali:	640 nm
Nastawa:	Potencjometr, 5 obrotów
Średnica plamki świetlnej (odległość):	Ø 6 mm (200 mm)

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

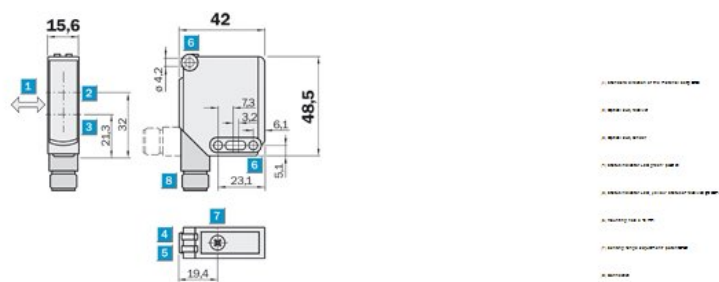
Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Current consumption:	≤ 40 mA ²⁾
Wyjście przełączające:	NPN
Tryb przełączania:	Complementary
Tryb przełączania:	Przełączanie jasno/ciemno, wybierane
Napięcie sygnału NPN HIGH/LOW:	Approx. VS / < 2.5 V
Output current I _{max} :	100 mA
Czas reakcji:	≤ 2,5 ms ³⁾
Switching frequency:	200 Hz ⁴⁾
Sposób przyłączenia:	Cable, 4-wire, 2 m ⁵⁾
Cable material:	PVC
Przekrój przewodu:	0,25 mm ²
Układ zabezpieczenia:::	A, C, D ⁶⁾ ⁷⁾ ⁸⁾
Klasa ochrony:	II
Ciężar:	200 g
Special device:	-
Tworzywo, obudowa:	ABS, Tworzywo sztuczne
Tworzywo, układ optyczny:	PMMA
Rodzaj zabezpieczenia:	IP 66 IP 67 IP 69K
Ambient operating temperature:	-30 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 75 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493

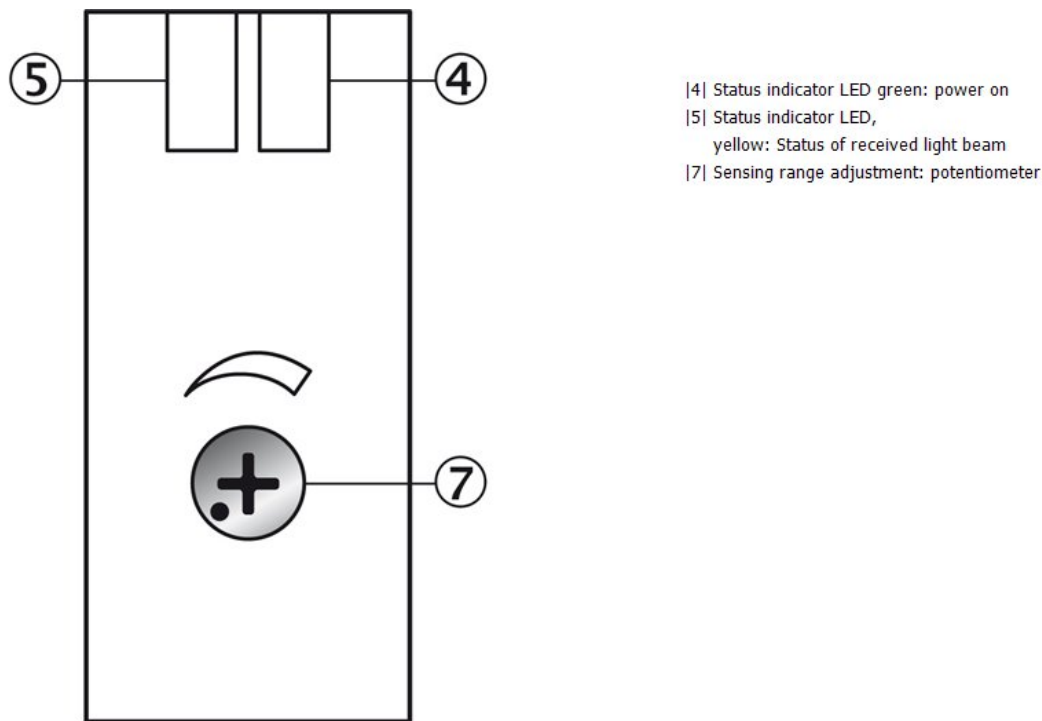
May not exceed or fall short of V_S tolerances;

¹⁾ Limit values, operation in short-circuit protected network max. 8 A ²⁾ Bez obciążenia ³⁾ Signal transit time with resistive load ⁴⁾ With light/dark ratio 1:1 ⁵⁾ Do not bend below 0 °C ⁶⁾ A = V_S connections reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ D = outputs overcurrent and short-circuit protected

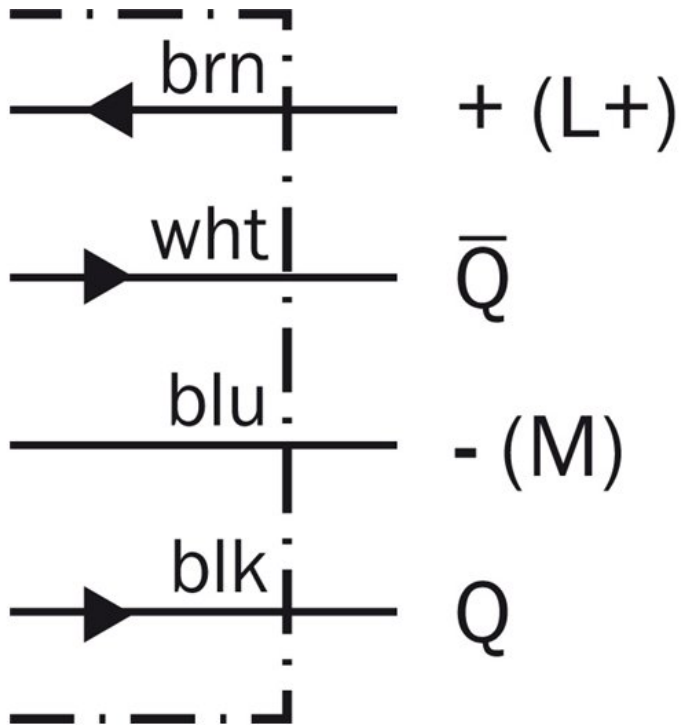
Dimensional drawing



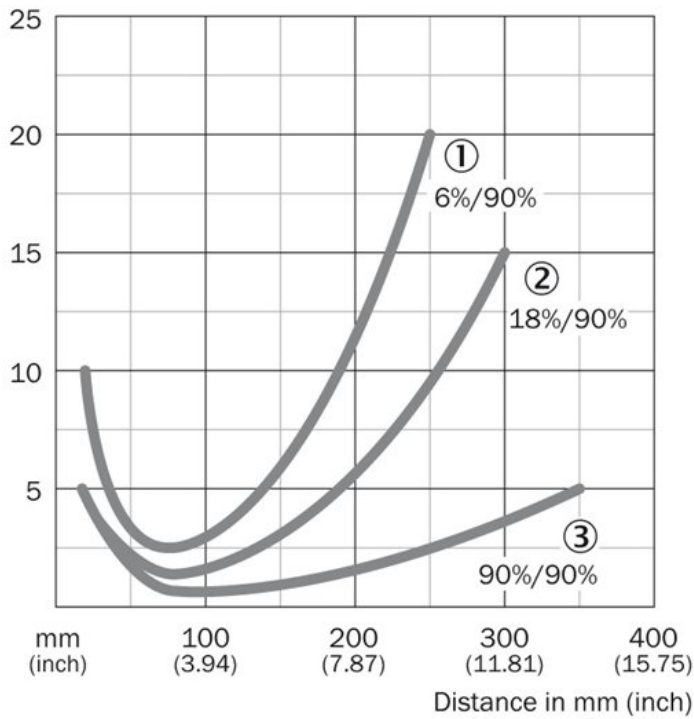
Adjustments possible



Connection diagram

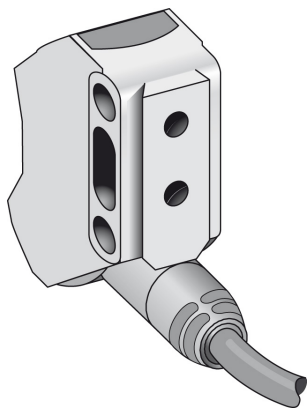


Characteristic curve

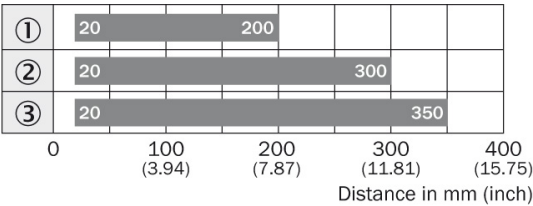


- |1| Sensing range on black, 6 % remission
- |2| Sensing range on grey, 18 % remission
- |3| Sensing range on white, 90 % remission

Connection type



Sensing range diagram



- Sensing range
- ① Sensing range on black, 6 % remission
 - ② Sensing range on gray, 18 % remission
 - ③ Sensing range on white, 90 % remission

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