



Fotoprzełączniki W11-2, Fotoprzełącznik odbiciowy, Tłumienie tła

WTB11-2P2430S03



Nazwa modelu > **WTB11-2P2430S03**

Numer części > **1047923**



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:	150 mm ¹⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	Pin Point LED ²⁾
Długość fali:	660 nm
Średnica plamki świetlnej (odległość):	Ø 6 mm (200 mm)

¹⁾ Object with 18 % reflectance ²⁾ Average service life of 100,000 h at T_A = +25 °C

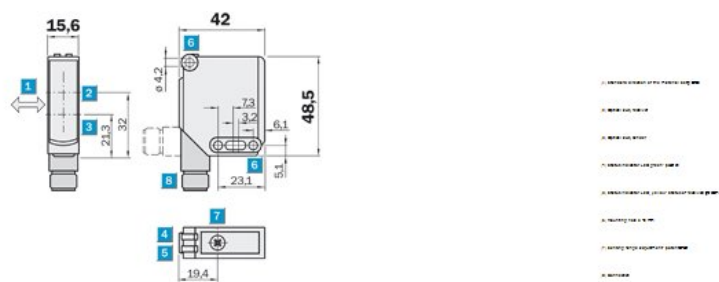
Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Current consumption:	≤ 30 mA ²⁾
Wyjście przełączające:	PNP
Tryb przełączania:	Komplementarne
Switching output:	Przełączanie jasno/ciemno, wybierane
Napięcie sygnału PNP HIGH/LOW:	U _v - 2,5 V/ca. 0 V
Output current I _{max} :	100 mA
Czas reakcji:	≤ 2,5 ms ³⁾
Switching frequency:	200 Hz ⁴⁾
Sposób przyłączenia:	Connector M12, 4-pin
Układ zabezpieczenia::	A, C, D ^{5) 6) 7)}
Klasa ochronności:	II
Ciężar:	120 g
Special device:	✓
Tworzywo, obudowa:	ABS, Tworzywo sztuczne
Tworzywo, układ optyczny:	PMMA
Rodzaj zabezpieczenia:	IP 66 IP 67 IP 69K
Funkcje specjalne:	Sensing range preset: 150 mm
Ambient operating temperature:	-30 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 75 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493

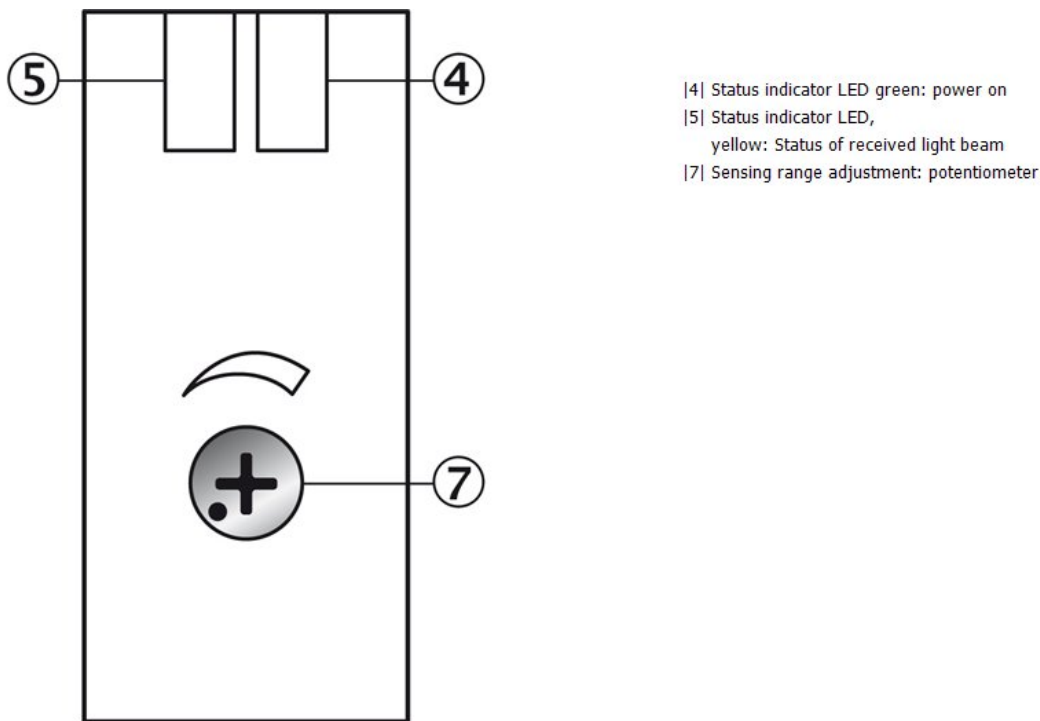
May not exceed or fall short of V_S tolerances;

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⁾ A = V_S
connections reverse-polarity protected ⁶⁾ C = interference suppression ⁷⁾ D = outputs overcurrent and short-circuit protected

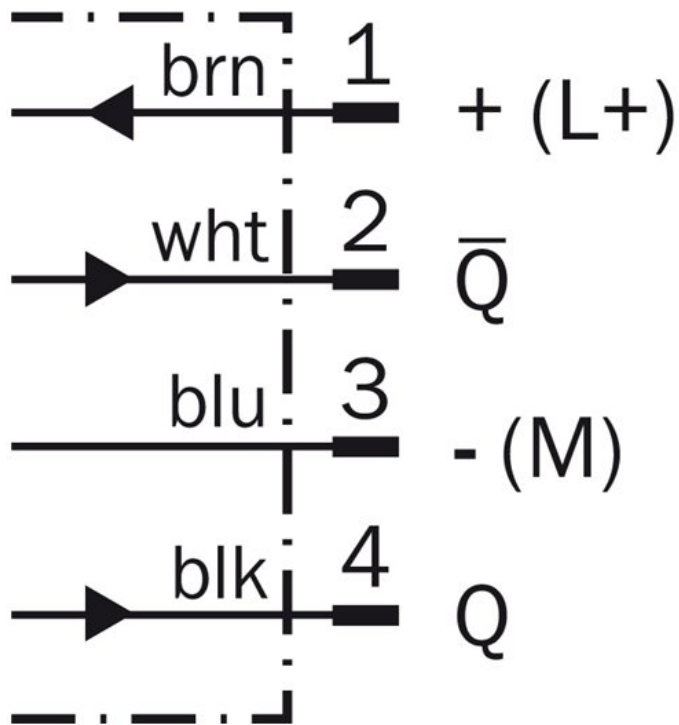
Dimensional drawing



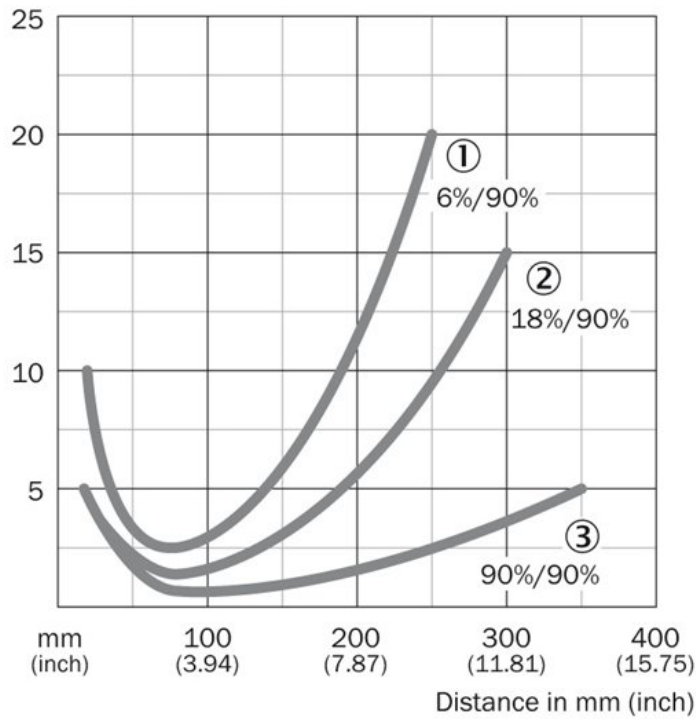
Adjustments possible



Connection diagram

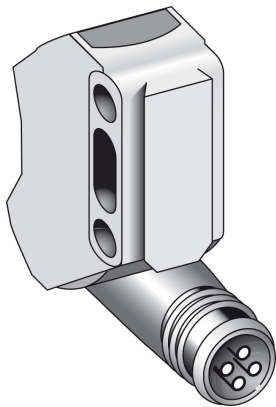


Characteristic curve

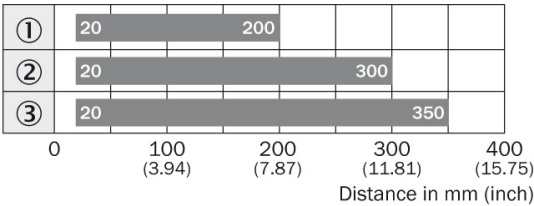


- |1| Sensing range on black, 6 % remission
- |2| Sensing range on grey, 18 % remission
- |3| Sensing range on white, 90 % remission

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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