



Photoelectric sensors W11-2, Fotoprzełącznik odbiciowy, Tłumienie tła

WTB11-2P2431



Nazwa modelu > **WTB11-2P2431**

Numer części > **1041376**



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

Wymiary (Szer. x Wys. x Głęb.):	15,6 mm x 48,5 mm x 42 mm
Maks. strefa działania:	20 mm ... 350 mm ¹⁾
Sensing range:	20 mm ... 350 mm
Housing desig (light emission):	Prostopadłościenna
Nadajnik światła:	LED ²⁾
Rodzaj światła:	widzialne światło czerwone
Długość fali:	640 nm
Nastawienie czułości:	Potencjometr, 5 obrotów
Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, Tłumienie tła
Light spot (distance):	6 mm (200 mm)

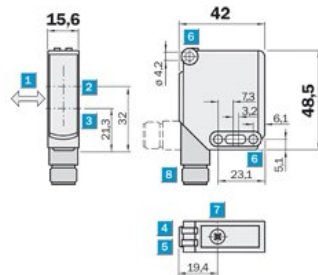
¹⁾ Obiekt odbijający 90% światła (standardowy biały zgodnie z norma DIN 5033) ²⁾ Average service life 100,000 h at Ta = +25 °C

Mechanika/elektronika

Rodzaj zabezpieczenia:	IP 66 IP 67 IP 69K
Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	$\leq 5 V_{ss}$ ²⁾
Pobór prądu:	$\leq 30 \text{ mA}$ ³⁾
Wyjście przełączające:	PNP, przełączanie jasno/ciemno, wybierane, Komplementarne
Output current I _{max} :	100 mA
Czas reakcji:	$\leq 2,5 \text{ ms}$ ⁴⁾
Switching frequency:	200 Hz ⁵⁾
Sposób przyłączenia:	Connector M12, 4-pin
Klasa ochronności:	II
Układ zabezpieczenia:::	A C D ⁶⁾ ⁷⁾ ⁸⁾
Ciężar:	120 g
Tworzywo, obudowa:	ABS
Tworzywo, układ optyczny:	PMMA
Ambient temperature, operation:	-30 °C ... 60 °C
Ambient temperature, storage:	-40 °C ... 75 °C
Napięcie sygnału PNP HIGH/LOW:	U _v - 2,5 V/ca. 0 V
Special device:	-
UL File-No.:	UL No. NRKH.E181493 & cUL No. NRKH7.E181493

¹⁾ Limit values, operation in short-circuit protected network max. 8 A ²⁾ May not exceed or fall short of V_S ³⁾ Without load ⁴⁾ Signal transit time with resistive load ⁵⁾ With light/dark ratio 1:1 ⁶⁾ A = V_S connections reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ D = outputs overcurrent and short-circuit protected

Dimensional drawing

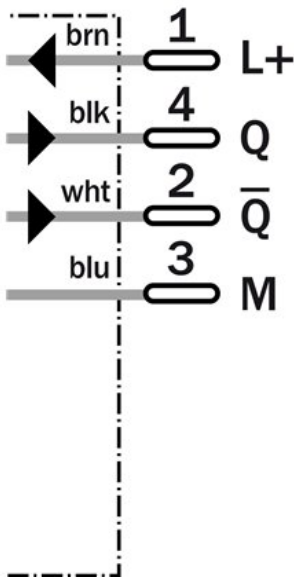


- 1) DIMENSIONAL DRAWING OF THE PRODUCT (mm)
- 2) DIMENSIONAL DRAWING OF THE PRODUCT (mm)
- 3) DIMENSIONAL DRAWING OF THE PRODUCT (mm)
- 4) DIMENSIONAL DRAWING OF THE PRODUCT (mm)
- 5) DIMENSIONAL DRAWING OF THE PRODUCT (mm)
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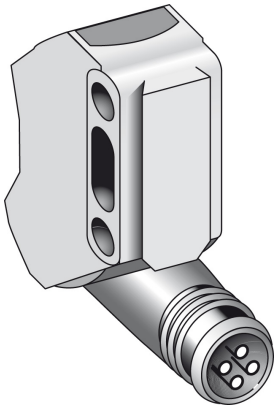
Einstell-Möglichkeiten



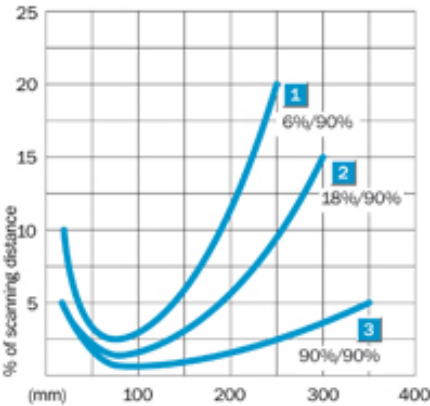
Connection diagram



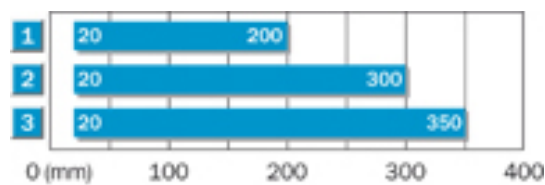
Connection type



Characteristic curve



Sensing range diagram



1	Scanning distance on black, 6 % remission
2	Scanning distance on grey, 18 % remission
3	Scanning distance on white, 90 % remission

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