



Fotoprzełączniki W12-3, Fotoprzełącznik odbiciowy, Tłumienie tła

WTB12-3P2413



Nazwa modelu > **WTB12-3P2413**

Numer części > **1041423**



Produkt może różnić się od ilustracji

At a glance

- State of the art technology provides precise background suppression
- Withstands harsh environments
- PinPoint LED technology with highly visible light spot; variants available with IR LED for highly critical applications
- Rugged die-cast zinc housing, with optional Teflon® coating
- Versatile mounting options due to dovetail mounting - mounting holes and oblong holes
- Flexible sensing ranges and hysteresis settings
- Key lock function, remote teach, quality monitoring
- Diagnostics messages (contamination and short-circuit)

Your benefits

- State of the art technology, e.g. OES3 provides precise background suppression and reliable detection of challenging objects
- High immunity to ambient light, optical reflections and crosstalk ensures fewer false readings and less downtime
- Highly visible status LEDs simplify sensing distance adjustments and reduce installation time
- A rugged metal housing withstands high-pressure cleaners and cleaning agents, reducing downtime
- Complementary outputs in one housing reduce inventory and procurement costs
- IO-Link enables quick remote diagnostics and maintenance (optional)
- 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 ... 600 mm ¹⁾
Sensing range:	20 mm ... 600 mm
Rodzaj światła:	Światło podczerwone
Nadajnik światła:	LED ²⁾
Długość fali:	850 nm
Teach-in:	Double teach-in button
Nastawa:	Teach-in
Średnica plamki świetlnej (odległość):	15 x 15 mm (200 mm)

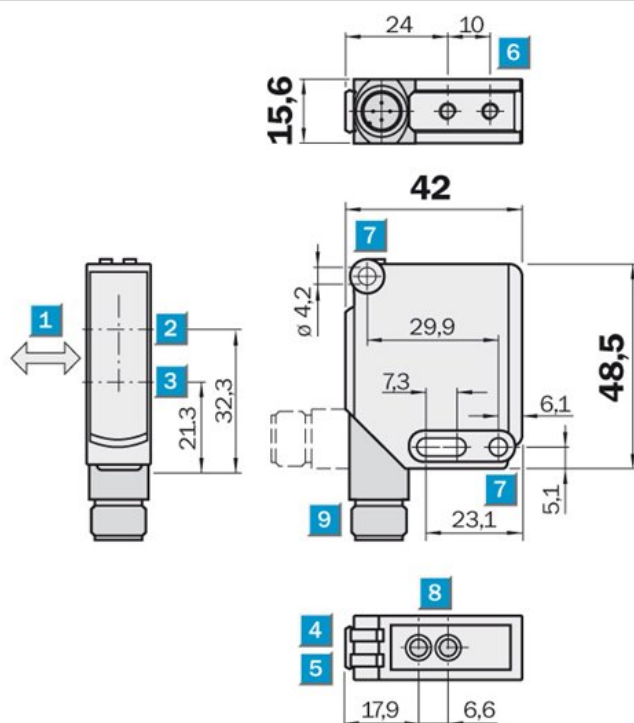
1) Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) 2) Average service life of 100,000 h at $T_A = +25\text{ °C}$

Mechanika/elektronika

Napięcie zasilania:	10 V DC... 30 V DC ¹⁾
Tętnienia resztkowe:	$\leq 5 V_{SS}$ ²⁾
Current consumption:	$\leq 55\text{ mA}$ ³⁾
Wyjście przełączające:	PNP
Tryb przełączania:	Komplementarne
Tryb przełączania:	Przełączanie jasno/ciemno, wybierane
Napięcie sygnału PNP HIGH/LOW:	$> U_V - 2,5\text{ V}/\text{ca. } 0\text{ V}$
Output current I _{max} :	100 mA
Czas reakcji:	$\leq 330\text{ }\mu\text{s}$ ⁴⁾
Switching frequency:	1.500 Hz ⁵⁾
Sposób przyłączenia:	Connector M12, 4-pin
Układ zabezpieczenia:::	A, C, D ⁶⁾ ⁷⁾ ⁸⁾
Klasa ochronności:	II
Ciężar:	120 g
Special device:	-
Tworzywo, obudowa:	Metal
Rodzaj zabezpieczenia:	IP 66 IP 67
Ambient operating temperature:	-40 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 75 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493

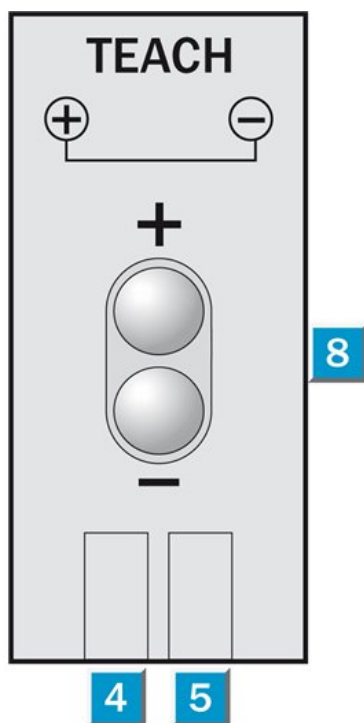
1) Limit values, operation in short-circuit protected network max. 8 A 2) May not exceed or fall short of V_S tolerances 3) Bez obciążenia 4) Signal transit time with resistive load 5) With light/dark ratio 1:1 6) $A = V_S$ connections reverse-polarity protected 7) C = interference suppression 8) D =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

Dimensional drawing



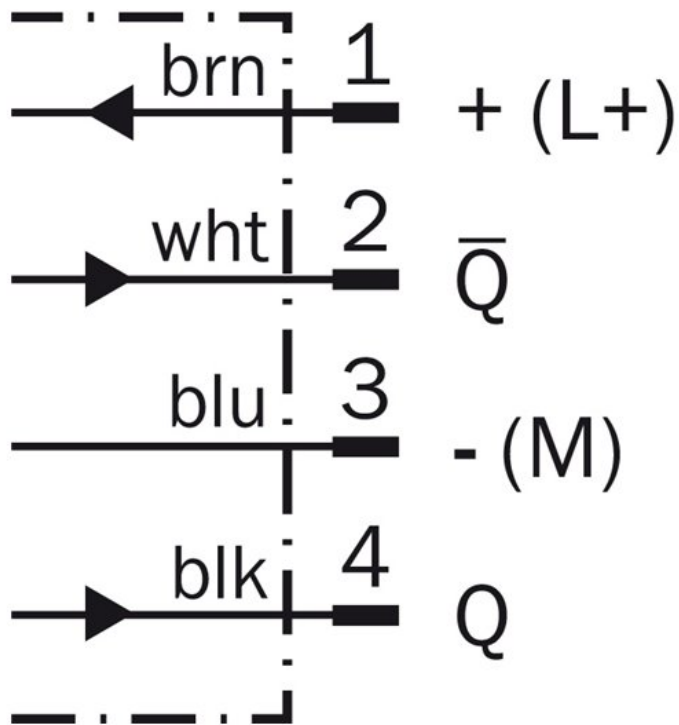
- |1| Standard direction of the material being scanned
- |2| Optical axis, receiver
- |3| Optical axis, sender
- |4| Status indicator LED green: power on
- |5| Status indicator LED,
yellow: Status of received light beam
- |6| M4 threaded mounting hole, 4 mm deep
- |7| Mounting hole, Ø 4.2 mm
- |8| Sensing range adjustment: double teach button
- |9| Connection

Adjustments possible

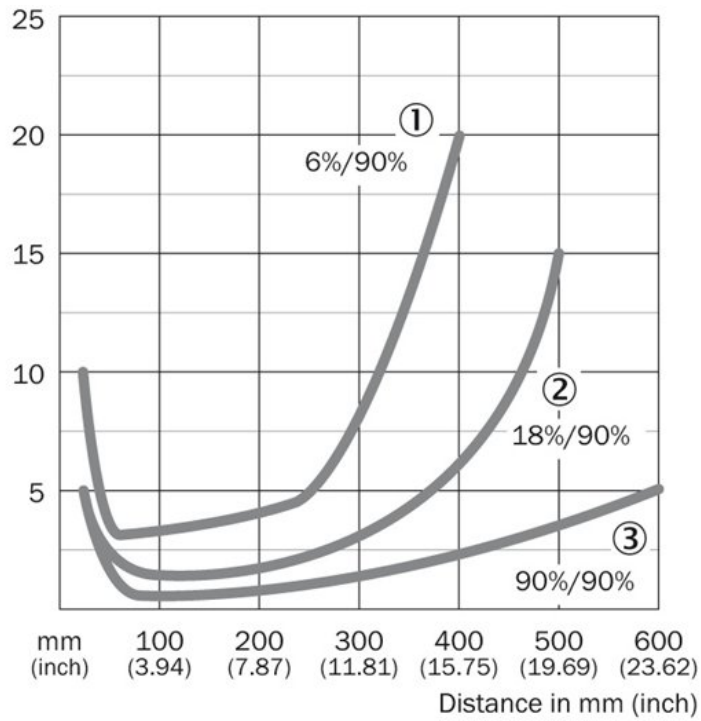


- |4| Green LED indicator: supply voltage active
- |5| LED indicator yellow: Light received
- |8| Sensing range adjustment: double teach button

Connection diagram

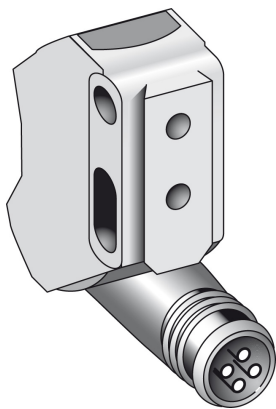


Characteristic curve

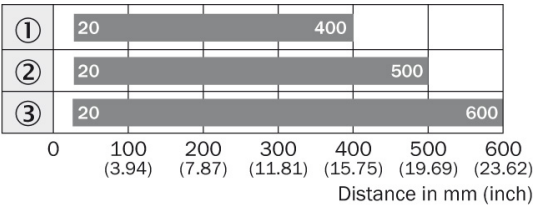


- |1| Sensing range on black, 6 % remission
- |2| Sensing range on grey, 18 % remission
- |3| Sensing range on white, 90 % remission

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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