



Fotoprzełączniki W4-3, Fotoprzełącznik odbiciowy, Tłumienie tła

WTB4-3P2161



Nazwa modelu > **WTB4-3P2161**

Numer części > **1028099**



At a glance

- Intense light spot with PinPoint LED technology
- Sensor with IR light available upon request
- Sensing range of 4 - 150 mm
- Background suppression sensor available with laser-like light spot
- Adjustment either via teach-in pushbutton, 5-turn potentiometer, cable or IO-Link
- Second emitter LED designed for suppression of shiny backgrounds

Your benefits

- Reliable detection of objects regardless of color and consistency
- Smart machine design ensures low-cost integration due to mounting flexibility in areas with limited space
- Best-in-class background suppression and a high immunity to ambient light, ensuring reliable object detection
- Rugged mounting system with M3 threaded metal inserts reduces maintenance costs due to a long service life
- Precise detection with a high level of repeat accuracy due to an intense light spot with PinPoint LED technology



Cechy

Wymiary (Szer. x Wys. x Głęb.):	16 mm x 39,5 mm x 12 mm
Maks. strefa działania:	4 mm ... 150 mm
Sensing range:	15 mm ... 150 mm
Housing desig (light emission):	Prostopadłościenna, Flat
Nadajnik światła:	Pin Point LED ¹⁾
Rodzaj światła:	widzialne światło czerwone
Długość fali:	650 nm
Nastawienie czułości:	Potencjometr, 5 obrotów
Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, Tłumienie tła
Light spot (distance):	7 mm (50 mm)

¹⁾ Average service life 100,000 h at Ta = +25 °C

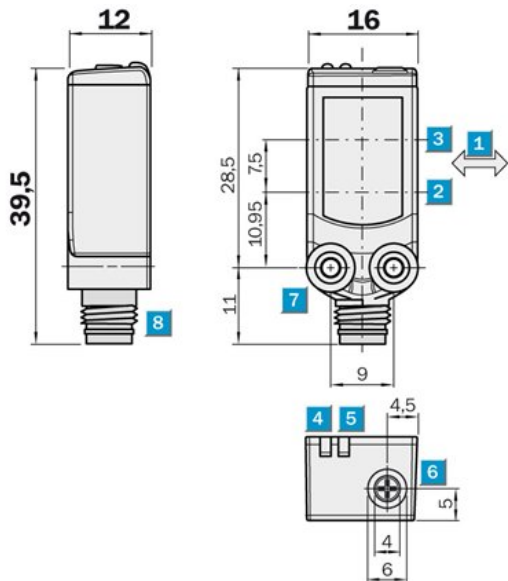
Mechanika/elektronika

Rodzaj zabezpieczenia:	IP 67 IP 66
Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	< 5 Vss ²⁾

Pobór prądu:	30 ³⁾
Wyjście przełączające:	PNP, light switching
Output current I _{max} ..:	100
Czas reakcji:	< 0,5 ms ⁴⁾
Switching frequency:	1.000 ⁵⁾
Sposób przyłączania:	Connector M8, 3-pin
Klasa ochronności:	III
Układ zabezpieczenia:::	A C ⁶⁾ 7) 8) D
Ciężar:	30 g
Tworzywo, obudowa:	ABS
Tworzywo, układ optyczny:	PMMA
Ambient temperature, operation:	-40 °C ... 60 °C
Ambient temperature, storage:	-40 °C ... 75 °C
UL File-No.:	UL No. NRKH.E181493 & cUL No. NRKH7.E181493

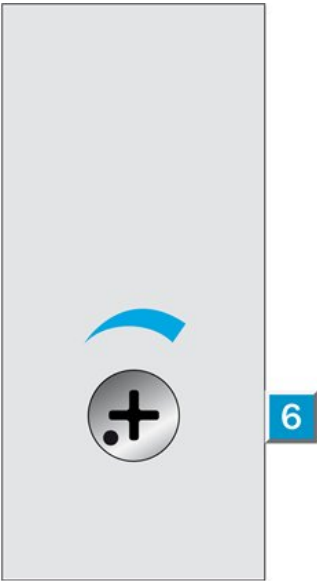
¹⁾ Limit values ²⁾ May not exceed or fall short of V_S tolerances ³⁾ Without load ⁴⁾ Signal transit time with resistive load ⁵⁾ With light/dark ratio 1:1 ⁶⁾ A = V_S
connections reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ D = outputs overcurrent and short-circuit protected

Dimensional drawing



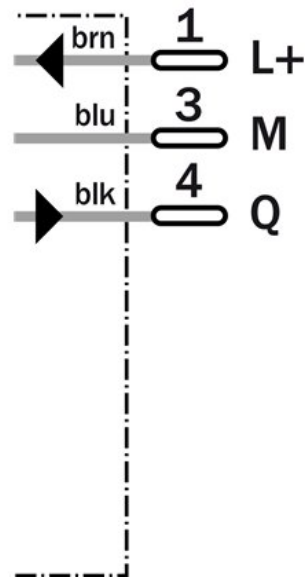
- |1| Standard direction of the material being scanned
- |2| Optical axis, sender
- |3| Optical axis, receiver
- |4| Status indicator LED,
yellow: Status of received light beam
- |5| Status indicator LED green: power on
- |6| Potentiometer
- |7| Threaded mounting hole M3
- |8| Connection

Einstell-Möglichkeiten

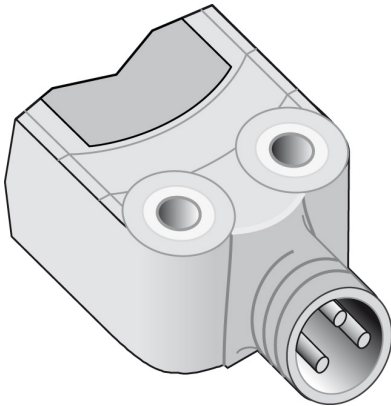


|6| Potentiometer

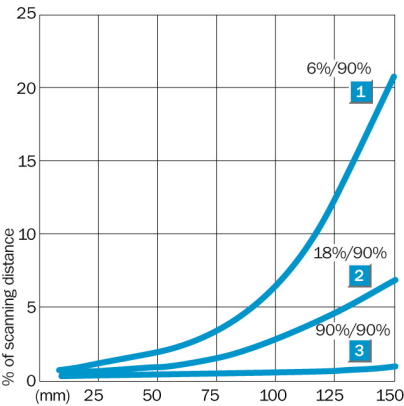
Connection diagram



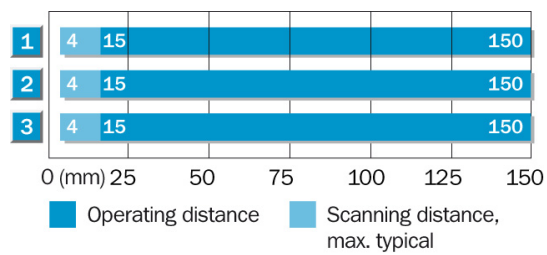
Connection type



Characteristic curve



Sensing range diagram



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

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