



Fotoprzełączniki

WTB4S-3P2231



Nazwa modelu > [WTB4S-3P2231](#)

Numer części > [1042057](#)



At a glance

- Best background suppression and suppression of extraneous light in its class
- Setting either via teach-in button, 5-speed potentiometer cable or by IO-Link.
- All models with PinPoint technology
- Versions with laser-like LED light spots

Your benefits

- Less downtime due to reliable detection of objects of all types - regardless of which products are handled in the plant in the future.
- Laser-like light spot and corresponding performance enable replacement of laser sensors to some degree.
- The WTB4S-3 enables a smart machine design since reliable object detection is possible in the most cramped spatial conditions and with close-by critical backgrounds.
- Reliable detection thanks to best-in-class background suppression and high resistance to extraneous light



Cechy

Wymiary (Szer. x Wys. x Głęb.):	16 mm x 39,5 mm x 12 mm
Maks. strefa działania:	4 mm ... 120 mm
Sensing range:	10 mm ... 120 mm
Housing desig (light emission):	Slim
Nadajnik światła:	Pin Point LED ¹⁾
Rodzaj światła:	widzialne światło czerwone
Długość fali:	650 nm
Nastawa:	adjustable
Nastawienie czułości:	Adjustable Potencjometr, 5 obrotów
Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, Tłumienie tła
Light spot (distance):	2,5 mm (50 mm)

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

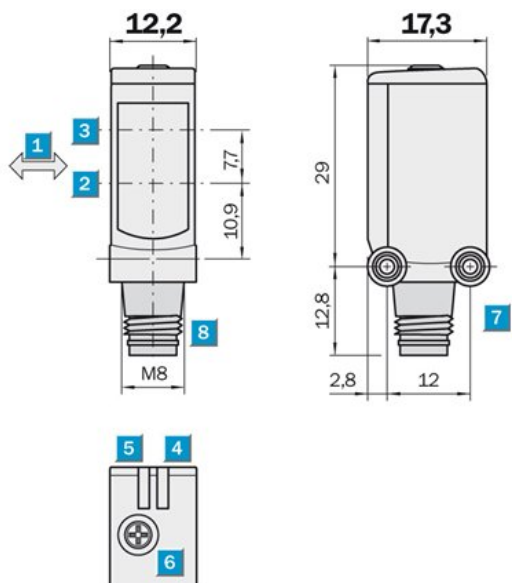
Mechanika/elektronika

Rodzaj zabezpieczenia:	IP 67 IP 66
Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	< 5 Vss ²⁾
Pobór prądu:	30 ³⁾

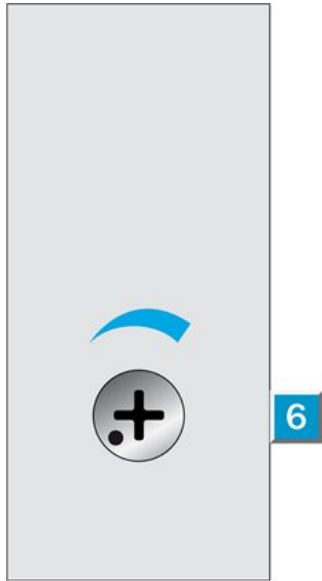
Wyjście przełączające:	PNP, przełączanie jasno/ciemno, wybierane
Output current I _{max} :	100
Czas reakcji:	< 0,5 ms ⁴⁾
Switching frequency:	1.000 With light/dark ratio 1:1
Sposób przyłączenia:	Connector M8, 4-pin
Ilość żył:	4
Klasa ochronności:	III
Układ zabezpieczenia:::	A C ⁵⁾ 6) 7) D
Ciężar:	30 g
Tworzywo, obudowa:	ABS
Tworzywo, układ optyczny:	PMMA
Ambient temperature, operation:	-40 °C ... 60 °C
Ambient temperature, storage:	-40 °C ... 75 °C

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

Rysunek techniczny

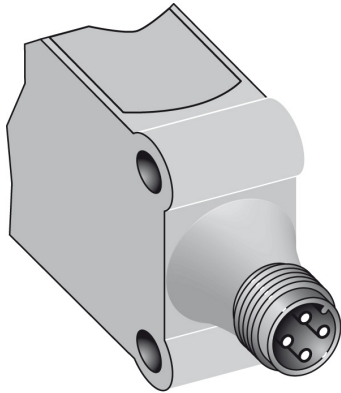


- |1| Standard direction of the material being scanned
- |2| Optical axis receiver
- |3| Optical axis sender
- |4| Status indicator LED, green: power on
- |5| Status indicator LED, yellow: Status of received light beam
- |6| Potentiometer
- |7| Threaded mounting hole M3
- |8| Connection

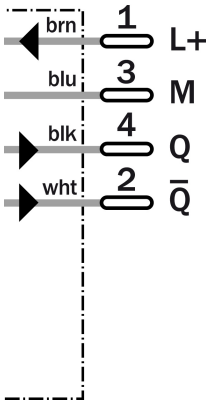


[6] Potentiometer

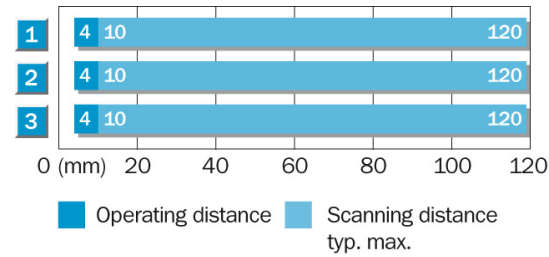
Typ połączenia



Schemat połączenia



Schemat zakresu pracy



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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