



Fotoprzełączniki W8, Fotoprzełącznik odbiciowy, Tłumienie tła

WTB8-P2231



Nazwa modelu > **WTB8-P2231**

Numer części > **6033209**



At a glance

- Background suppression
- Red PinPoint LED
- Standard miniature housing with M3 threaded mounting holes
- Light/dark switching selectable via rotary switch

Your benefits

- Reliable detection of objects regardless of color or surface qualities
- Background suppression provides a high level of precision and repeatability
- Highly visible light spot simplifies alignment
- M3 mounting holes ensure quick installation



Cechy

Wymiary (Szer. x Wys. x Głęb.):	11 mm x 31 mm x 20 mm
Maks. strefa działania:	30 mm ... 300 mm ¹⁾
Sensing range:	40 mm ... 300 mm
Housing desig (light emission):	Prostopadłościenna, Slim
Nadajnik światła:	LED ²⁾
Rodzaj światła:	widzialne światło czerwone
Długość fali:	650 nm
Nastawienie czułości:	Potencjometr, 4 obrotów
Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, Tłumienie tła
Light spot (distance):	20 mm (300 mm)
Wyjście alarmowe:	-

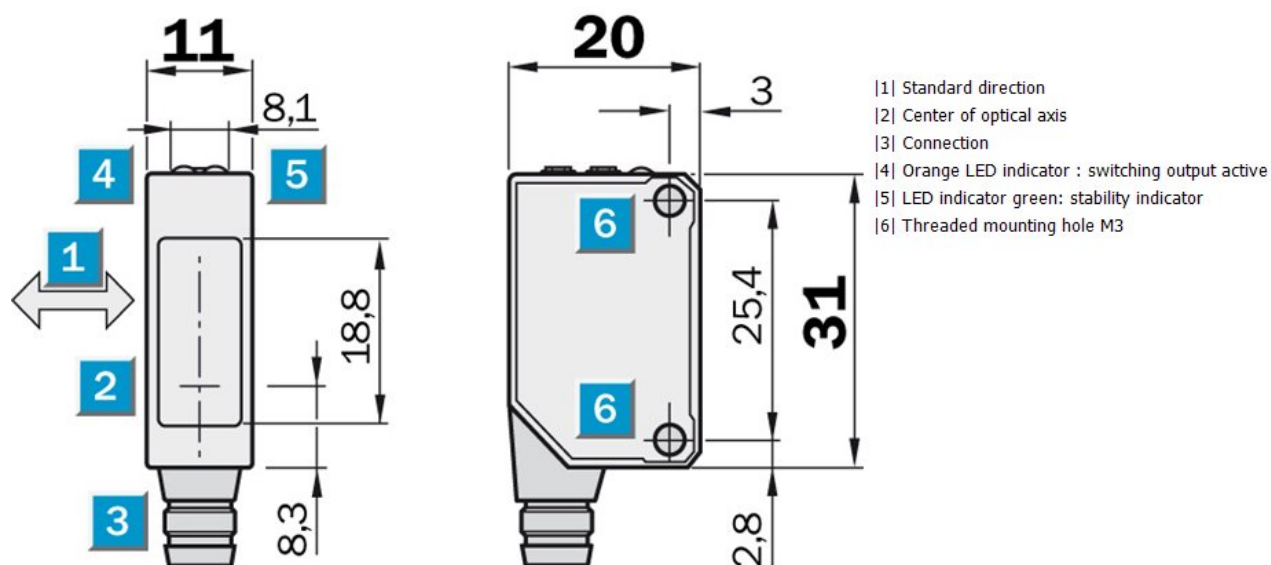
¹⁾ Obiekt odbijający 90% światła (standardowy biały zgodnie z norma DIN 5033) ²⁾ Average service life of 100,000 h at T_A = +25 °C

Mechanika/elektronika

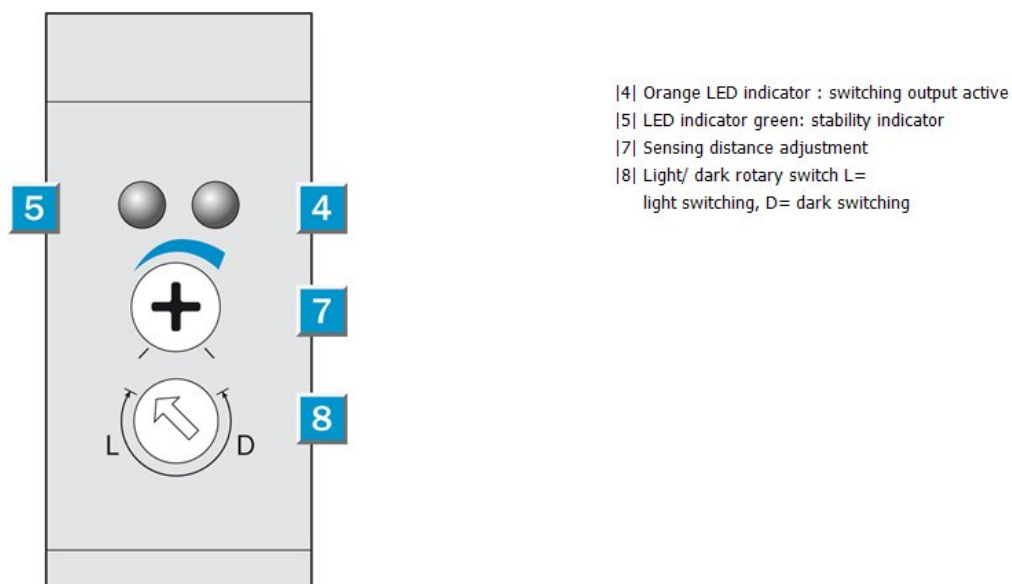
Rodzaj zabezpieczenia:	IP 67
Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	$\pm 10\%$ ²⁾
Pobór prądu:	$\leq 30\text{ mA}$ ³⁾
Wyjście przełączające:	PNP, light/dark-switching, manually selectable, open collector
Output current I _{max} ..:	100
Czas reakcji:	$\leq 0,5\text{ ms}$ ⁴⁾
Switching frequency:	1.000 ⁵⁾
Sposób przyłączenia:	Connector M8, 4-pin
Układ zabezpieczenia:::	A B ⁶⁾ 7) 8) D
Ciężar:	10 g
Tworzywo, obudowa:	ABS
Tworzywo, układ optyczny:	PMMA
Ambient temperature, operation:	-25 °C ... 55 °C
Ambient temperature, storage:	-40 °C ... 70 °C
Filtr polaryzacyjny:	-
Dostawa:	Stainless steel mounting bracket (1.4301/304) BEF-W100-A
Ognisko nastawne:	-
Napięcie zasilania silnika:	-
Output state-LED:	-
Napięcie sygnału PNP HIGH/LOW:	approx. V _S - 1.8 V / 0 V
Ogrzewanie przedniej szyby:	-
AS-Interface-Chip:	-
Anti-interference:	0

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⁾ B = inputs and output reverse-polarity protected
⁸⁾ D = outputs overcurrent and short-circuit protected

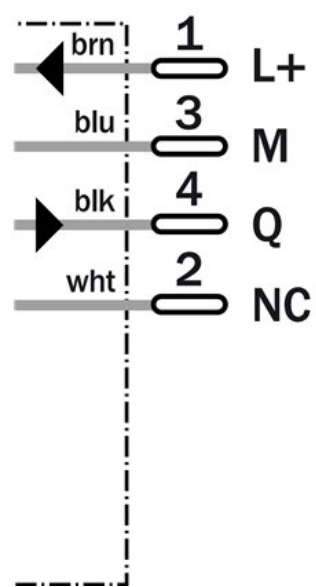
Dimensional drawing



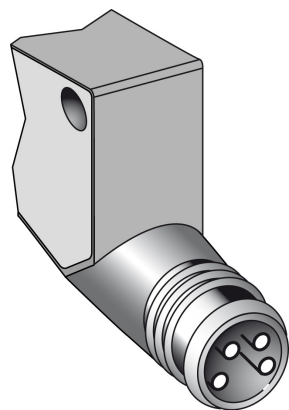
Einstell-Möglichkeiten



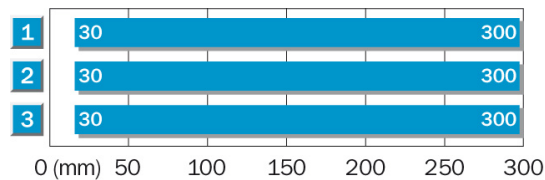
Connection diagram



Connection type

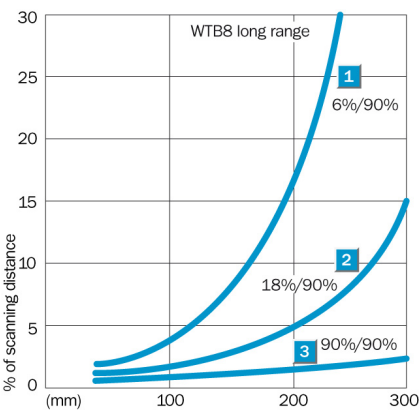


Sensing range diagram



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

Characteristic curve



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