



Fotoprzełączniki W8 Laser, Fotoprzełącznik odbiciowy, Tłumienie tła

WTB8L-P2231



Nazwa modelu > **WTB8L-P2231**

Numer części > **6033221**



At a glance

- Laser class 1
- Background suppression
- Standard miniature housing with M3 threaded mounting holes
- Switching frequency up to 2 kHz
- Light/dark switching via rotary switch
- Mounting bracket BEF-W100-A is included with delivery

Your benefits

- Highly flexible design and operational capabilities due to precise background suppression
- Reliable detection of small objects, regardless of color or surface qualities
- Rapid switching frequency reliably detects objects travelling at high speeds which allows to optimize the production processes
- Highly visible laser light spot simplifies alignment
- All necessary accessories are included with delivery, reducing installation and procurement costs



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:	Laser ²⁾
Rodzaj światła:	widzialne światło czerwone
Długość fali:	650 nm
Nastawienie czułości:	Potencjometr, 4 obrotów
Klasa lasera:	I
Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, Tłumienie tła
Light spot (distance):	1,5 mm (300 mm)

Wyjście alarmowe:

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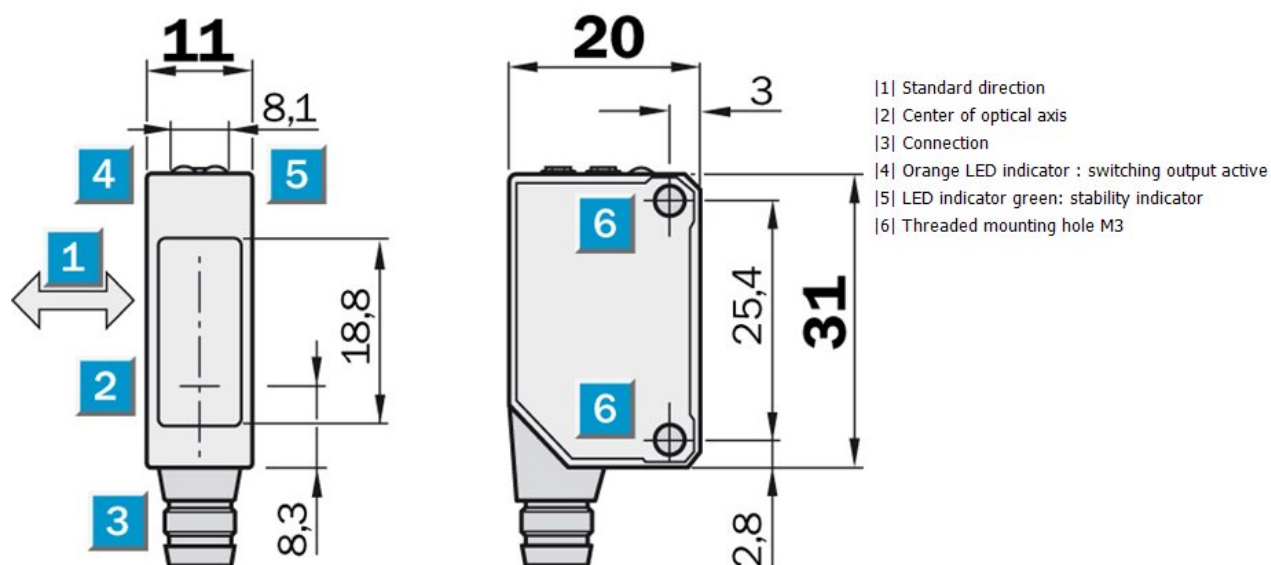
1) PL80A 2) Average service life of 100,000 h at $T_A = +25\text{ °C}$

Mechanika/elektronika

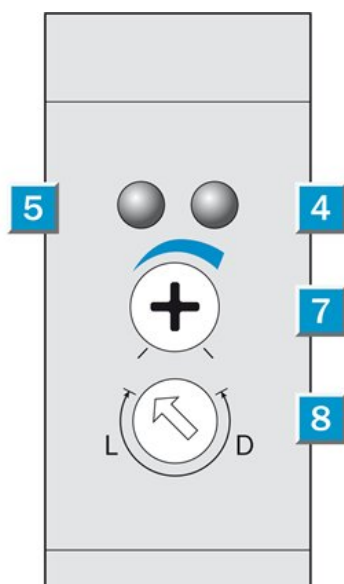
Rodzaj zabezpieczenia:	IP 67
Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	$\pm 10\%$ ²⁾
Pobór prądu:	$\leq 30\text{ mA}$ ³⁾
Wyjście przełączające:	PNP, light/dark-switching, manually selectable, open collector
Output current I _{max} :	100
Czas reakcji:	$\leq 25\text{ ms}$ ⁴⁾
Switching frequency:	2.000 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:	-10 °C ... 50 °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. VS - 1.8 V / 0 V
Ogrzewanie przedniej szyby:	-
AS-Interface-Chip:	-
Anti-interference:	0
UL File-No.:	CDRH-conform

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

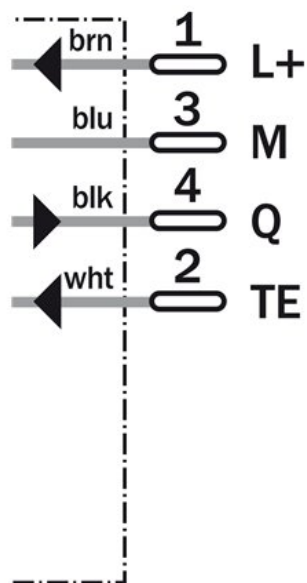
Dimensional drawing



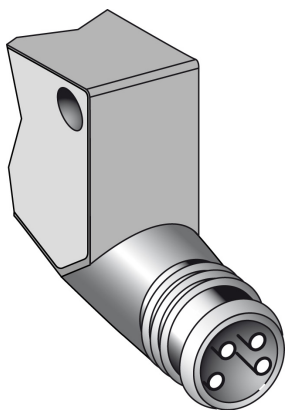
Einstell-Möglichkeiten



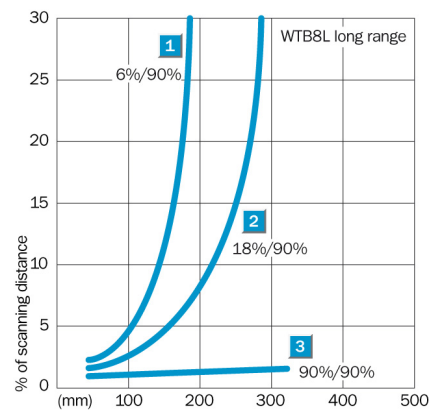
Connection diagram



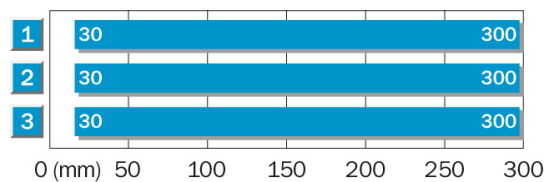
Connection type



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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