



Fotoprzełączniki W27-3 Ex, Fotoprzełącznik refleksyjny

WL27X-3P1831



Nazwa modelu > **WL27X-3P1831**

Numer części > **1027989**



Produkt może różnić się od ilustracji

At a glance

- Classification: EX II 3G EX nA op is IIB T4 Gc X, EX II 3D EX tc IIIB T135°C Dc IP67 X according to Directive 94/9/EC (ATEX)
- Corresponds to category 3D/3G
- Conform to standards and ready-to-install: Sensor and additional protective housing (stainless steel 1.4301)
- Long sensing range with a high operating reserve
- Red light for easy alignment
- Reliable operation in industrial environments, even when devices are mounted opposite one another

Your benefits

- Ready-to-install sensors conform to the 3G/3D category for explosive zones (ATEX)
- Less contamination due to high operating reserves, reducing downtime
- Resistant to vibrations, reducing downtime
- Withstands harsh environments, making it suitable for a wide range of applications with operating temperatures from -20 °C - +50 °C



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik refleksyjny
Wymiary (Szer. x Wys. x Głęb.):	31,4 mm x 112,3 mm x 70,4 mm
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania:	0,1 m ... 15 m ¹⁾
Sensing range:	0,1 m ... 11 m ²⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	LED ³⁾
Długość fali:	660 nm
Kąt promieniowania:	Ca. 1,5 °
Nastawa:	Potentiometer
Średnica plamki świetlnej (odległość):	Ø 220 mm (10 m)

^{1) 2)} PL80A ³⁾ Average service life of 100,000 h at T_A = +25 °C

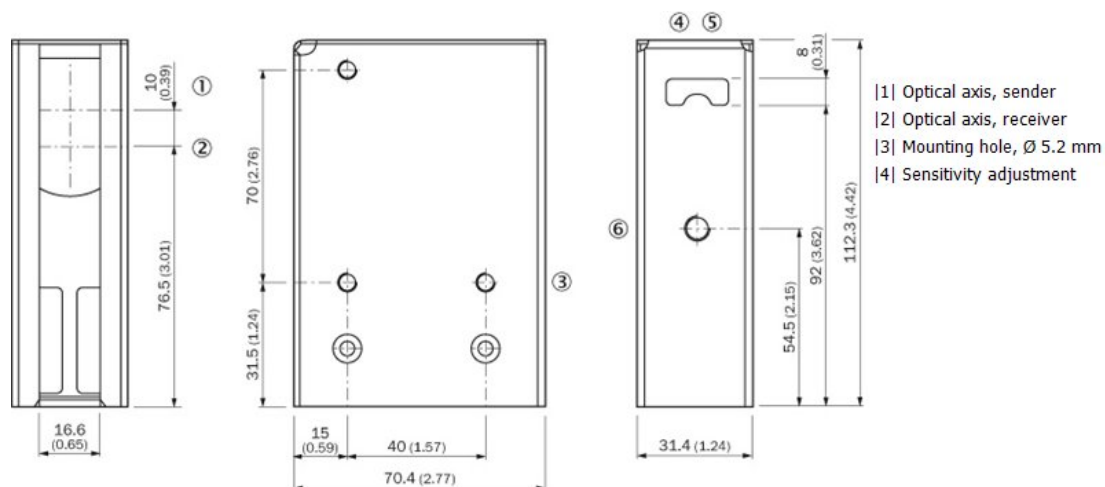
Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	≤ 5 Vss ²⁾
Current consumption:	≤ 30 mA ³⁾

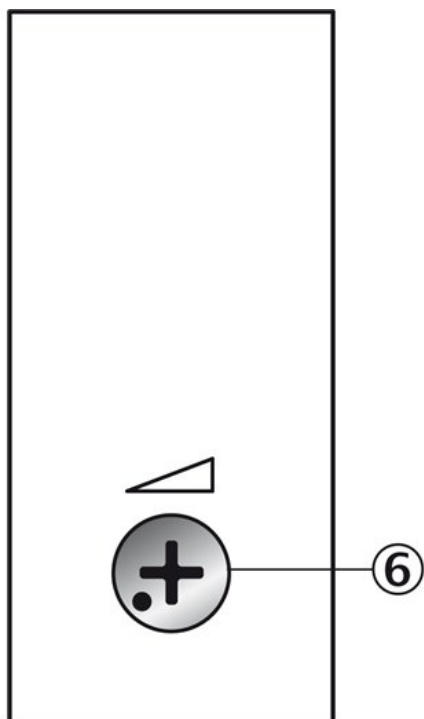
Wyjście przełączające:	PNP
Tryb przełączania:	Komplementarne
Tryb przełączania:	Przełączanie jasno/ciemno, wybierane
Output current I _{max} :	≤ 100 mA
Czas reakcji:	≤ 500 μs ⁴⁾
Switching frequency:	1.000 Hz ⁵⁾
Sposób przyłączenia:	Cable, 4-wire, 10 m ⁶⁾
Cable material:	PVC
Układ zabezpieczenia:::	A, B, C ⁷⁾ 8) 9)
Klasa ochronności:	II ¹⁰⁾
Ciężar:	750 g
Filtr polaryzacyjny:	✓
Tworzywo, obudowa:	ABS, Stainless steel, Stainless steel V2A (1.4301), Tworzywo sztuczne
Tworzywo, układ optyczny:	PMMA
Enclosure rating:	IP 67
Oznakowanie strefy zagrożonej (ATEX):	EX II 3G EX nA op is IIB T4 Gc X
Kategoria strefy zagrożonej:	3D, 3G
Ambient operating temperature:	-20 °C ... 50 °C
Ambient storage temperature:	-40 °C ... 75 °C
Napięcie sygnału PNP HIGH/LOW:	Approx. VS - 2.5 V / 0 V

- 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⁾ Do not bend below 0 °C
 ⁷⁾ A = V_S connections reverse-polarity protected
 ⁸⁾ B = inputs and output reverse-polarity protected
⁹⁾ C = interference suppression
 ¹⁰⁾ Reference voltage: 50 V DC

Dimensional drawing

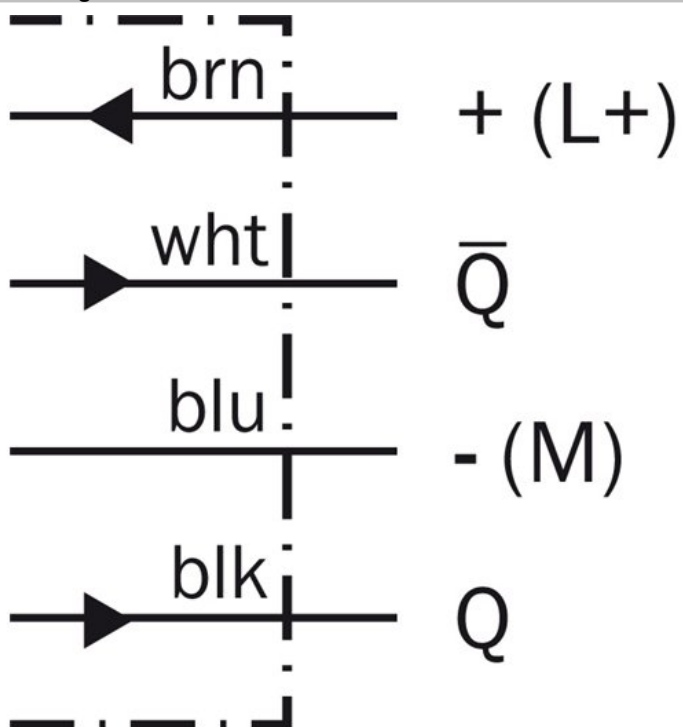


Adjustments possible

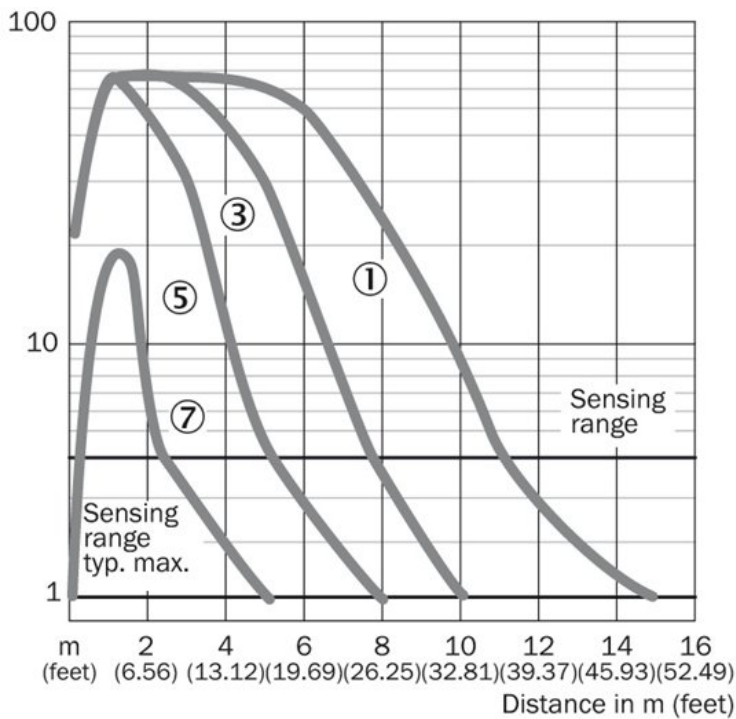


[6] Sensitivity adjustment: poti

Connection diagram

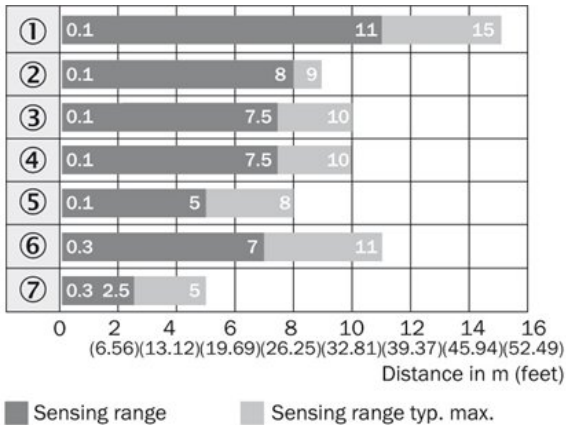


Characteristic curve



- |1| PL80A
- |3| PL40A
- |5| PL20A
- |7| Reflective tape Diamond Grade

Sensing range diagram

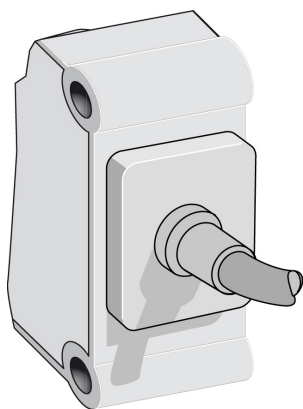


- |1| PL80A
- |2| PL50A
- |3| PL40A
- |4| PL30A
- |5| PL20A
- |6| C110A
- |7| Reflective tape Diamond Grade

Reflector type

- ① PL80A
- ② PL50A
- ③ PL40A
- ④ PL30A
- ⑤ PL20A
- ⑥ C110
- ⑦ Reflective tape Diamond Grade

Connection type



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