



Fotoprzełączniki W11G-2, Fotoprzełącznik refleksyjny, autocollimation

WL11G-2K3431



Nazwa modelu > **WL11G-2K3431**

Numer części > **1048313**



Produkt może różnić się od ilustracji

At a glance

- Retro-reflective for detection of clear material objects
- Rugged housing for industrial use
- PinPoint LED technology with a highly visible light spot
- Space-saving plastic housing in chemically, thermally or mechanically resistant designs
- Dovetail mounting - standard mounting holes and oblong holes
- Highly visible 360° status LEDs
- Simple sensitivity adjustment via potentiometer

Your benefits

- Superior ASIC ensures reliable detection of transparent objects
- PinPoint LED technology provides a bright, small and precise light spot that enables quick and easy sensor alignment
- Precise switching characteristics ensure high performance even in changing application conditions
- Highly visible 360° status LEDs provide fast and easy commissioning
- Rugged housing design withstands harsh environments, reducing downtime and maintenance effort
- Uniform housing, mounting and connection systems reduce mounting and installation time
- High immunity to optical interferences reduces false readings and downtime



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik refleksyjny, autocollimation
Wymiary (Szer. x Wys. x Głęb.):	15,6 mm x 48,5 mm x 42 mm
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania:	0 m ... 4 m ¹⁾
Sensing range:	0 m ... 4 m ²⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	LED ³⁾
Długość fali:	640 nm
Kąt promieniowania:	Ca. 1,5 °
Nastawa:	Potencjometr, 11 obrotów
Średnica plamki świetlnej (odległość):	Ø 25 mm (1,5 m)
Continuous threshold adaption:	-

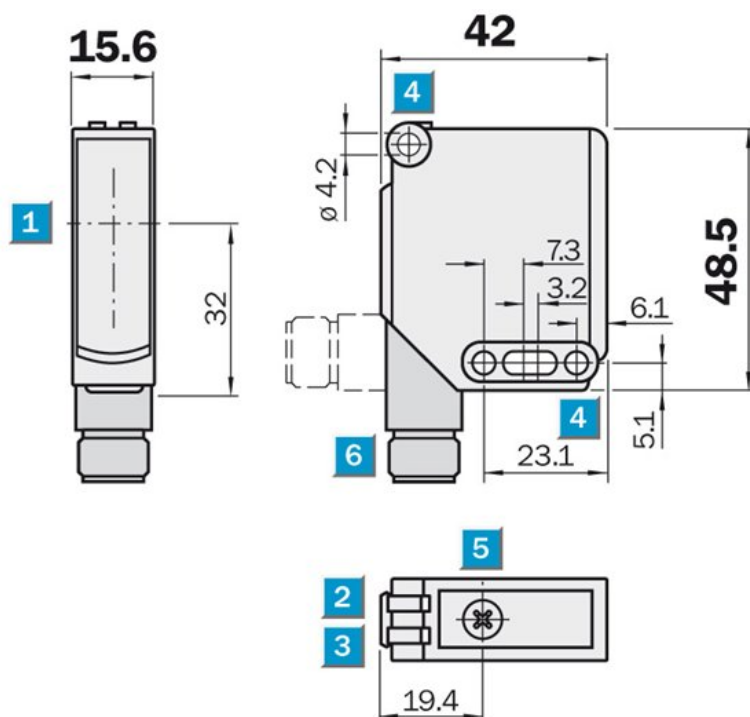
1) 2) PL80A 3) Average service life of 100,000 h at $T_A = +25\text{ }^{\circ}\text{C}$

Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	$\leq 5\text{ Vss}$ ²⁾
Current consumption:	$\leq 30\text{ mA}$ ³⁾
Wyjście przełączające:	PNP ⁴⁾
Tryb przełączania:	Komplementarne
Tryb przełączania:	Przełączanie jasno/ciemno, wybierane ⁵⁾
Switching mode selector:	0 V oder unbeschaltet, hellschaltend, Uv, dark-switching, Selectable via L/D control wire
Napięcie sygnału PNP HIGH/LOW:	Uv - 3 V/ca. 0 V
Output current I _{max} :	100 mA
Czas reakcji:	$\leq 330\text{ }\mu\text{s}$ ⁶⁾
Switching frequency:	1.500 Hz ⁷⁾
Tłumienie w drodze optycznej światła:	> 8 %
Sposób przyłączenia:	Cable with connector M12, 4-pin
Przekrój przewodu:	0,25 mm ²
Układ zabezpieczenia:::	A, C, D ⁸⁾ ⁹⁾ ¹⁰⁾
Klasa ochronności:	II
Filtr polaryzacyjny:	✓
Special device:	-
Tworzywo, obudowa:	ABS, Tworzywo sztuczne
Tworzywo, układ optyczny:	PMMA
Rodzaj zabezpieczenia:	IP 66 IP 67 IP 69K
Emitancja:	Do obiektów transparentnych
Ambient operating temperature:	-30 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 75 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493

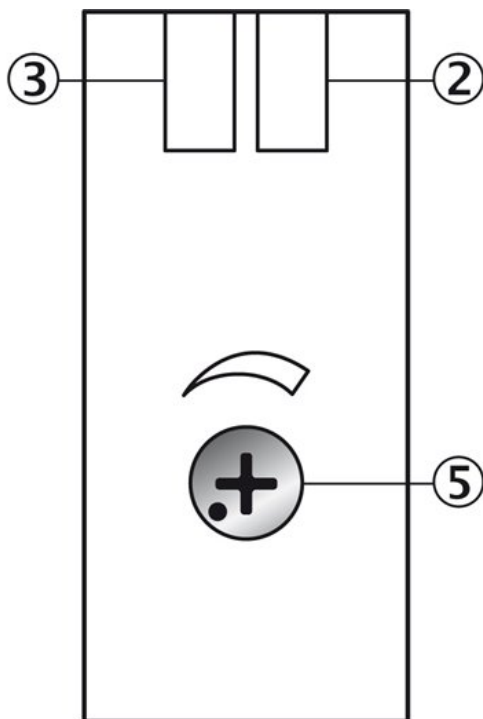
1) Limit values, operation in short-circuit protected network max. 8 A 2) May not exceed or fall short of V_S tolerances 3) Bez obciążenia 4) 5) Pin 2/Pin 4 swapped
⁶⁾ Signal transit time with resistive load ⁷⁾ With light/dark ratio 1:1 ⁸⁾ A = V_S connections reverse-polarity protected ⁹⁾ C = interference suppression ¹⁰⁾ D =
 outputs overcurrent and short-circuit protected

Dimensional drawing



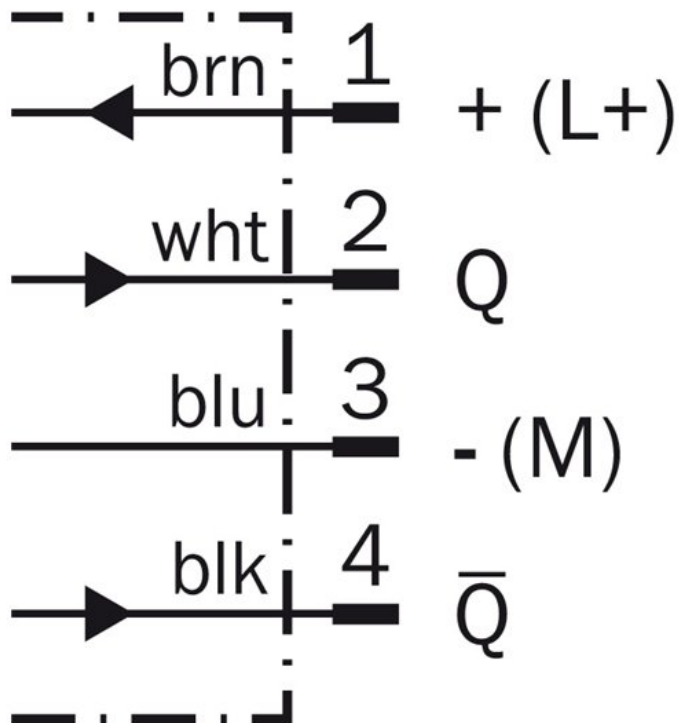
- [1] Center of optical axis
- [2] Status indicator LED green: power on
- [3] Status indicator LED, yellow: Status of received light beam
- [4] Mounting hole $\varnothing 4.2$ mm
- [5] Sensitivity adjustment: poti

Adjustments possible

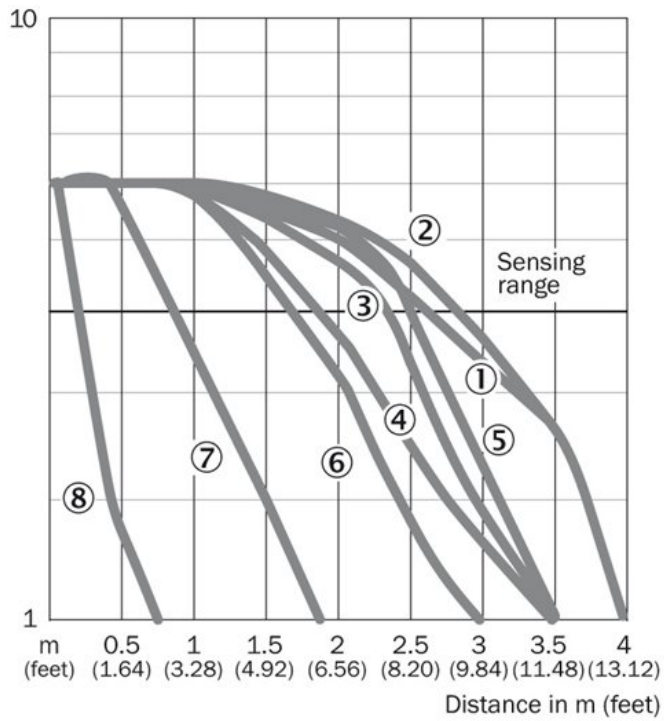


- [2] Status indicator LED green: power on
- [3] Status indicator LED, yellow: Status of received light beam
- [5] Sensitivity adjustment

Connection diagram

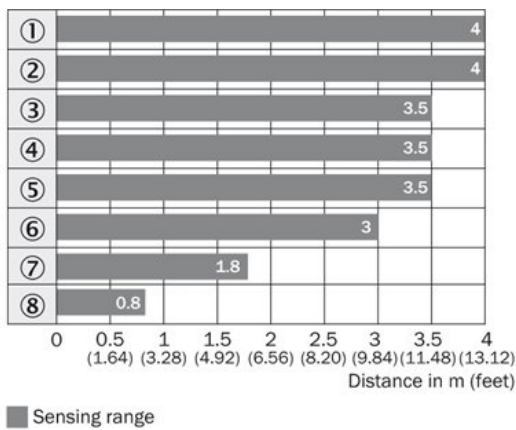


Characteristic curve



- [1] PL80A
- [2] C110A
- [3] P250F
- [4] PL50A
- [5] PL40A
- [6] PL30A
- [7] PL20A
- [8] Reflective tape Diamond Grade

Sensing range diagram

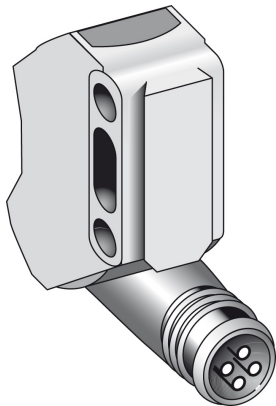


- |1| PL80A
- |2| C110A
- |3| P250F
- |4| PL50A
- |5| PL40A
- |6| PL30A
- |7| PL20A
- |8| Reflective tape Diamond Grade

Reflector type

- ① PL80A
- ② C110A
- ③ P250F
- ④ PL50A
- ⑤ PL40A
- ⑥ PL30A
- ⑦ PL20A
- ⑧ Reflective tape Diamond Grade

Connection type



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