



Photoelectric sensors W11-2, Fotoprzełącznik refleksyjny, Standard optics

WL11-2N2430



Nazwa modelu > **WL11-2N2430**

Numer części > **1041387**



At a glance

- Retro-reflective with standard lens principle
- Rugged housing for industrial use
- PinPoint LED technology with 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
- Optional sensing range adjustment via teach-in pushbutton
- Operating distance up to 10 m

Your benefits

- Custom ASIC provides reliable object detection
- High immunity to optical interference reduces false readings and downtime
- 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
- Rugged housing design withstands harsh environments, reducing downtime and maintenance effort
- Highly visible 360° status LEDs provide quick and easy setup without additional personnel or costly training
- Easy installation using SICK accessories



Cechy

Wymiary (Szer. x Wys. x Głęb.):	15,6 mm x 48,5 mm x 42 mm
Maks. strefa działania:	0,15 m ... 10 m ¹⁾
Sensing range:	0,15 m ... 8 m ²⁾
Housing desig (light emission):	Prostopadłościenna
Nadajnik światła:	LED ³⁾
Rodzaj światła:	widzialne światło czerwone
Długość fali:	640 nm
Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik refleksyjny, Standard optics
Light spot (distance):	50 mm (3 m)

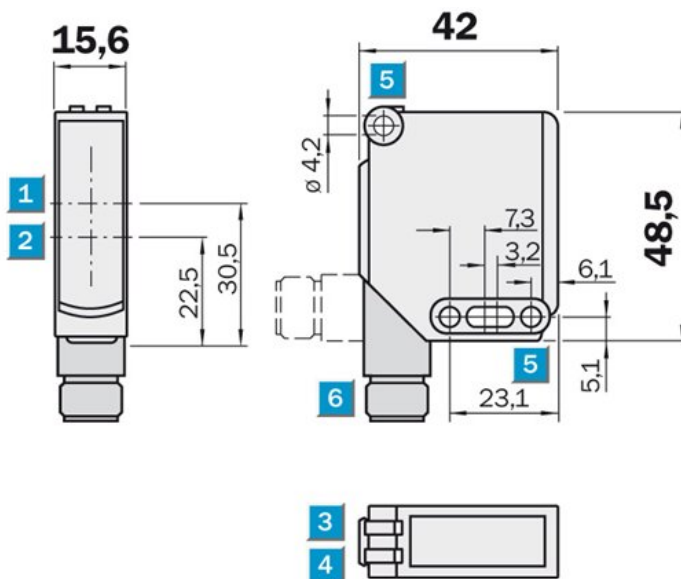
^{1) 2)} PL80A ³⁾ Average service life 100,000 h at Ta = +25 °C

Mechanika/elektronika

Rodzaj zabezpieczenia:	IP 66 IP 67 IP 69K
Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	$\leq 5 \text{ V}_{SS}$ ²⁾
Pobór prądu:	$\leq 40 \text{ mA}$ ³⁾
Wyjście przełączające:	NPN, przełączanie jasno/ciemno, wybierane, Komplementarne
Output current I _{max} :	100 mA
Czas reakcji:	$\leq 2,5 \text{ ms}$ ⁴⁾
Switching frequency:	200 Hz ⁵⁾
Sposób przyłączenia:	Connector M12, 4-pin
Klasa ochronności:	II
Układ zabezpieczenia:::	A C D ⁶⁾ ⁷⁾ ⁸⁾
Ciężar:	120 g
Tworzywo, obudowa:	ABS
Tworzywo, układ optyczny:	PMMA
Ambient temperature, operation:	-30 °C ... 60 °C
Ambient temperature, storage:	-40 °C ... 75 °C
Filtr polaryzacyjny:	✓
Napięcie sygnału NPN HIGH/LOW:	approx. $V_S / < 2.5 \text{ V}$
Special device:	-
Kąt promieniowania:	Ca. 2,2 °
UL File-No.:	UL No. NRKH.E181493 & cUL No. NRKH7.E181493

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⁾
⁶⁾ A = V_S connections reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ D = outputs overcurrent and short-circuit protected

Dimensional drawing



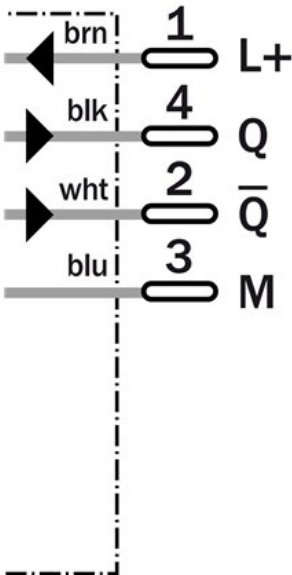
- |1| Optical axis, sender
- |2| Optical axis, receiver
- |3| Status indicator LED green: power on
- |4| Status indicator LED, yellow: Status of received light beam
- |5| Mounting hole $\varnothing 4.2 \text{ mm}$
- |6| Sensitivity setting teach-in; single teach button
- |7| M12 plug or cable

Einstell-Möglichkeiten

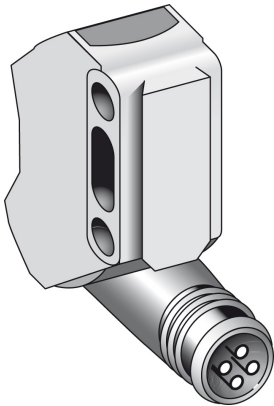


- |3| Status indicator LED green: power on
- |4| Status indicator LED, yellow: Status of received light beam

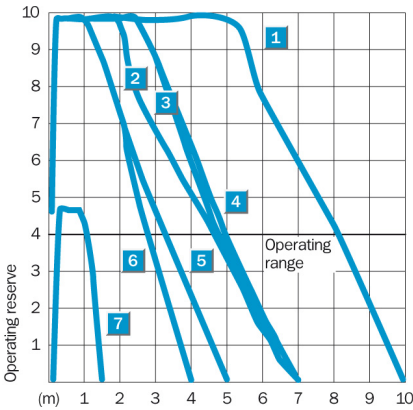
Connection diagram



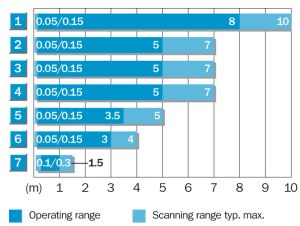
Connection type



Characteristic curve



Sensing range diagram



Reflector type	Operating range
1 PL80A	0.15 ... 8.0 m
2 C110A	0.15 ... 5.0 m
3 PL50A	0.15 ... 5.0 m
4 PL40A	0.15 ... 5.0 m
5 PL30A	0.15 ... 3.5 m
6 PL20A	0.15 ... 3.0 m
7 Reflective tape Diamond Grade	0.3 ... 1.0 m

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