



Photoelectric sensors W11-2, Fotoprzełącznik refleksyjny, Standard optics

WL11-2P2430



Nazwa modelu > **WL11-2P2430**

Numer części > **1041385**



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)

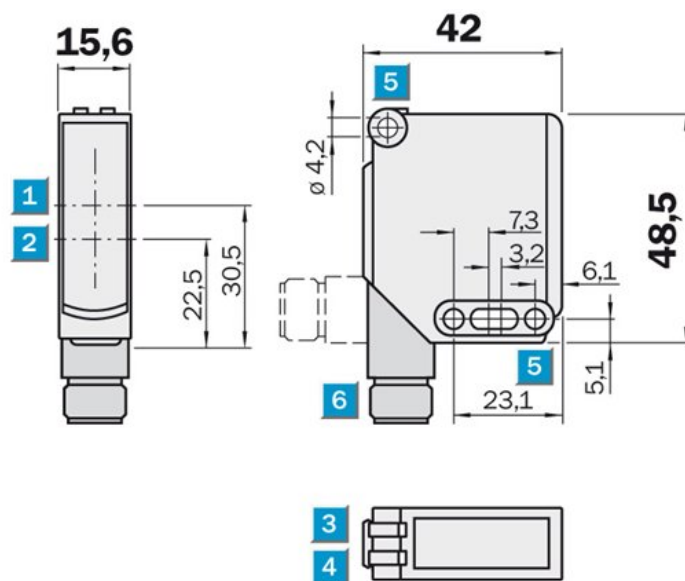
1) 2) PL80A ³⁾ Average service life 100,000 h at Ta = +25 °C

Mechanika/elektronika

Rodzaj zabezpieczenia:	IP 66 IP 67 IP 69K
Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	$\leq 5 \text{ Vss}$ ²⁾
Pobór prądu:	$\leq 30 \text{ mA}$ ³⁾
Wyjście przełączające:	PNP, 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 PNP HIGH/LOW:	U _v - 2,5 V/ca. 0 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⁾ With light/dark ratio 1:1
 ⁶⁾ A = V_S connections reverse-polarity protected
 ⁷⁾ C = interference suppression
 ⁸⁾ D = outputs overcurrent and short-circuit protected

Dimensional drawing



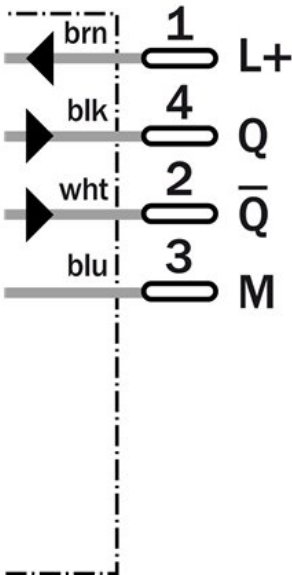
- |1| Optical axis, sender
- |2| Optical axis, receiver
- |3| Status indicator LED green: power on
- |4| Status indicator LED, yellow: Status of received light beam
- |5| Mounting hole $\varnothing 4.2 \text{ mm}$
- |6| Sensitivity setting teach-in; single teach button
- |7| M12 plug or cable

Einstell-Möglichkeiten

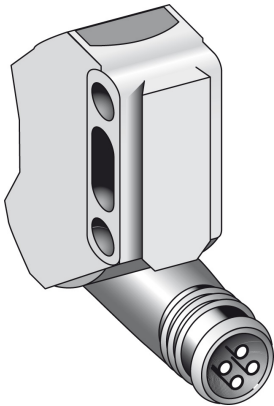


- |3| Status indicator LED green: power on
- |4| Status indicator LED, yellow: Status of received light beam

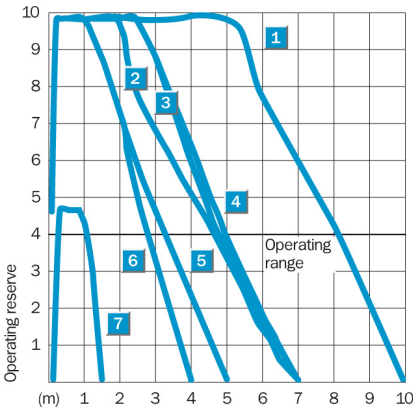
Connection diagram



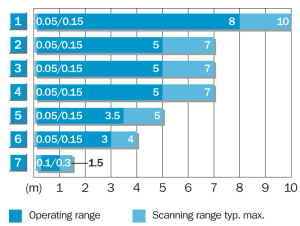
Connection type



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

Australia

Phone +61 3 9497 4100
1800 334 802 – tollfree
E-Mail sales@sick.com.au

Belgium/Luxembourg

Phone +32 (0)2 466 55 66
E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900
E-Mail sac@sick.com.br

Canada

Phone +1(952) 941-6780
1 800-325-7425 – tollfree
E-Mail info@sickusa.com

Ceská Republika

Phone +420 2 57 91 18 50
E-Mail sick@sick.cz

China

Phone +852-2763 6966
E-Mail ghk@sick.com.hk

Danmark

Phone +45 45 82 64 00
E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301
E-Mail kundenservice@sick.de

España

Phone +34 93 480 31 00
E-Mail info@sick.es

France

Phone +33 1 64 62 35 00
E-Mail info@sick.fr

Great Britain

Phone +44 (0)1727 831121
E-Mail info@sick.co.uk

India

Phone +91-22-4033 8333
E-Mail info@sick-india.com

Israel

Phone +972-4-999-0590
E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41
E-Mail info@sick.it

Japan

Phone +81 (0)3 3358 1341
E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680
E-Mail office@sick.hu

Nederlands

Phone +31 (0)30 229 25 44
E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00
E-Mail austefjord@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0
E-Mail office@sick.at

Polska

Phone +48 22 837 40 50
E-Mail info@sick.pl

România

Phone +40 356 171 120
E-Mail office@sick.ro

Russia

Phone +7 495 775 05 30
E-Mail info@sick.ru

Schweiz

Phone +41 41 619 29 39
E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732
E-Mail admin@sicksgp.com.sg

South Africa

Phone +27 11 472 3733
E-Mail info@sickautomation.co.za

South Korea

Phone +82-2 786 6321/4
E-Mail info@sickkorea.net

Slovenija

Phone +386 (0)1-47 69 990
E-Mail office@sick.si

Suomi

Phone +358-9-25 15 800
E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00
E-Mail info@sick.se

Taiwan

Phone +886 2 2375-6288
E-Mail sales@sick.com.tw

Türkiye

Phone +90 216 528 50 00
E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 4 8865 878
E-Mail info@sick.ae

USA/México

Phone +1(952) 941-6780
1 800-325-7425 – tollfree
E-Mail info@sickusa.com

More representatives and agencies
at www.sick.com