



Fotoprzełączniki W24-2 Ex, Fotoprzełącznik refleksyjny

WL24-2X230



Nazwa modelu > **WL24-2X230**

Numer części > **1026036**



Produkt może różnić się od ilustracji

At a glance

- Classification: EX II 2G Ex ia op is IIC T4 according to Directive 94/9/EC (ATEX)
- Corresponds to Category 2G
- Output type: EN 60947-5-6 (NAMUR)
- Long sensing range
- Red light
- M12 or terminal chamber connection: 90° rotatable
- Durable metal housing

Your benefits

- Allows longer sensing range despite the limited factors of the norms for Category 2G (ATEX, explosive environments)
- Metal housing that has been IP 69K tested provides reliability and a long service life
- Flexible installation due to 90° rotatable connector



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik refleksyjny
Wymiary (Szer. x Wys. x Głęb.):	27 mm x 87,5 mm x 65 mm
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania:	0 m ... 22 m ¹⁾
Sensing range:	0 mm ... 15 mm ²⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	LED ³⁾
Light spot diameter (distance):	Ø 250 mm (15 m)
Nastawienie czułości:	Sensitivity adjustment

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

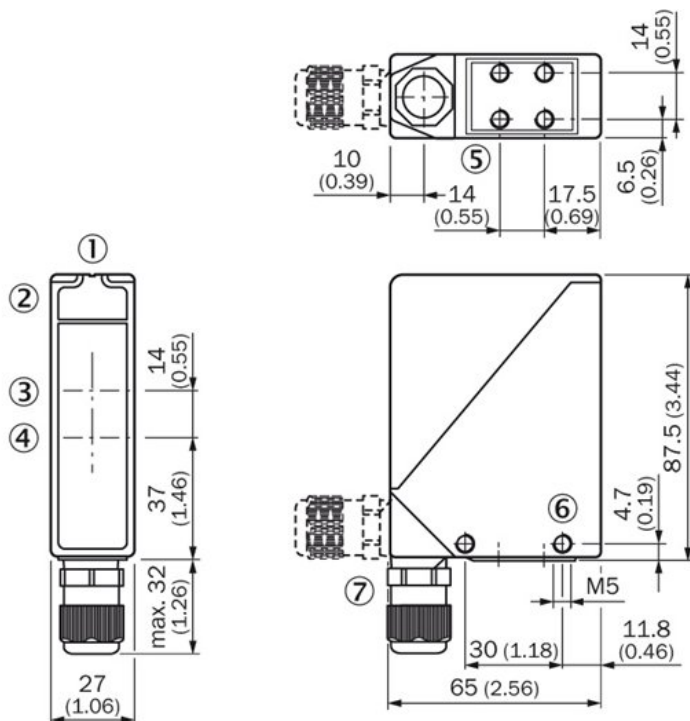
Mechanika/elektronika

Napięcie zasilania:	5 V DC ... 15,5 V DC ¹⁾
Tętnienia resztkowe:	< 0,4 Vss ²⁾
Wyjście przełączające:	NAMUR, Light-switching
Czas reakcji:	≤ 10 ms ³⁾
Switching frequency:	50 Hz ⁴⁾
Sposób przyłączenia:	Terminal connection with M16 gland ⁵⁾
Układ zabezpieczenia::	A, C ⁶⁾ ⁷⁾

Klasa ochronności:	II ⁸⁾
Ciężar:	330 g
Filtr polaryzacyjny:	✓
Tworzywo, obudowa:	Cynkowa, odlewana
Tworzywo, układ optyczny:	Szkoło
Rodzaj zabezpieczenia:	IP 67
Potwierdzenie kontroli typu konstrukcyjnego przez WE:	PTB 08 ATEX 2029
Oznakowanie strefy zagrożonej (ATEX):	II 2G Ex ia op is IIC T4 according to directive 94/9/EG (ATEX)
Kategoria strefy zagrożonej:	2G
Input voltage U_i max.:	$\geq 15,5 \text{ V}$ ⁹⁾
Input power P_i max.:	$\geq 100 \text{ mW}$ ¹⁰⁾
Input current I_i max.:	$\geq 53 \text{ mA}$ ¹¹⁾
Pojemność wewnętrzna:	80 nF ¹²⁾
Pojemność wewnętrzna:	$0 \text{ }\mu\text{H}$ ¹³⁾
Ambient operating temperature:	-20 °C ... 60 °C
Ambient storage temperature:	-25 °C ... 70 °C
UL File-No.:	Ex II 2G EEx ia op is IIC T4, ATEX Nr. PTB08 ATEX 2029

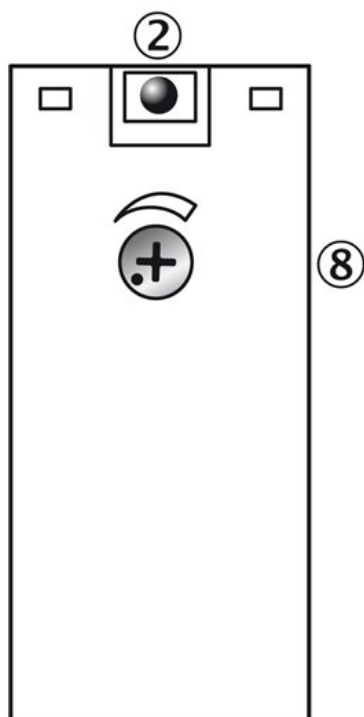
1) Limit values, supply with switching amplifier EN2Ex (internal resistor approx. 1 kOhm) 2) May not exceed or fall short of V_S ³⁾ Signal transit time with resistive load ⁴⁾ With light/dark ratio 1:1 ⁵⁾ Connection rotatable by 90° ⁶⁾ $A = V_S$ connections reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ Reference voltage 50 V DC
9) 10) 11) 12) 13) For connection to a sperately certified intrinsically safe circuit only

Dimensional drawing



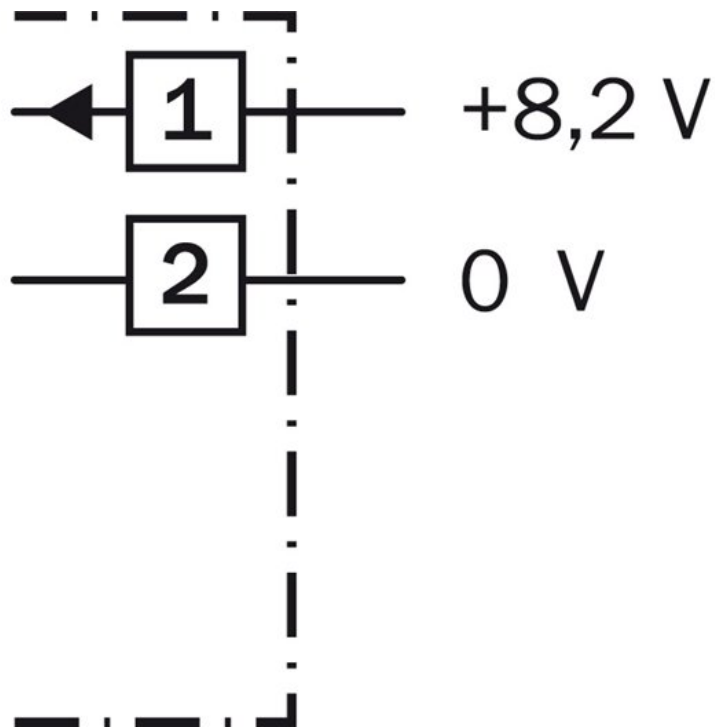
- [1] Alignment sight
- [2] LED signal strength indicator
- [3] Center of optical axis, sender
- [4] Center of optical axis, receiver
- [5] M5 threaded mounting hole, 6 mm deep
- [6] M5 threaded mounting hole, through-hole
- [7] M16 screw fixing rotatable by 90°

Adjustments possible

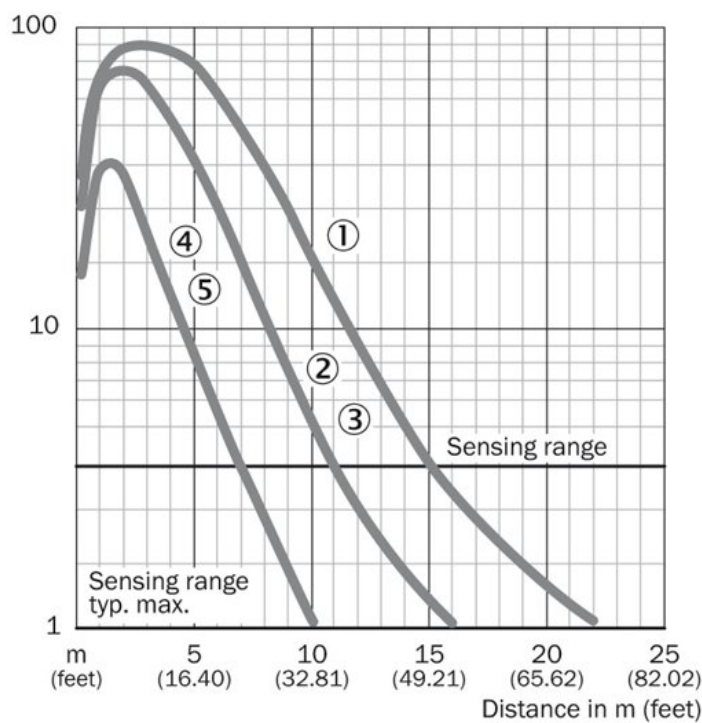


|2| LED signal strength indicator
|8| Sensitivity adjustment

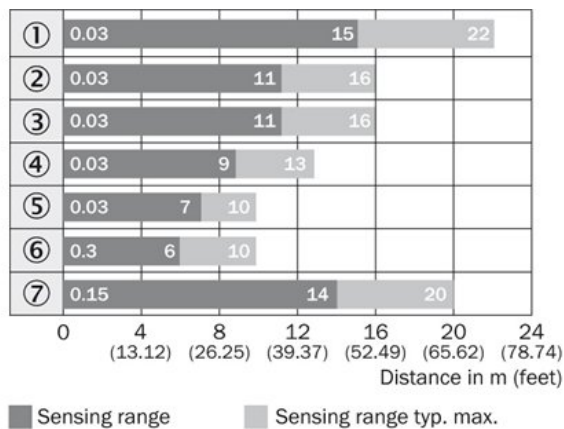
Connection diagram



Characteristic curve



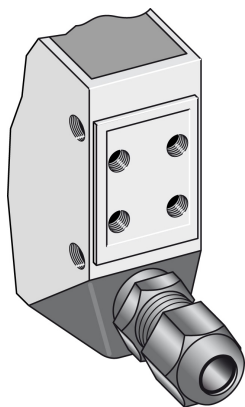
Sensing range diagram



Reflector type

- ① PL80A
- ② PL50A
- ③ PL40A
- ④ PL30A
- ⑤ PL20A
- ⑥ Diamond Grade (20 cm x 20 cm)
- ⑦ C110

Connection type



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