



Fotoprzełączniki W24-2 Ex, Fotoprzełącznik odbiciowy, Tłumienie tła

WT24-2X200



Nazwa modelu > **WT24-2X200**

Numer części > **1041910**



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 with very precise background suppression
- 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 odbiciowy, Tłumienie tła
Wymiary (Szer. x Wys. x Głęb.):	27 mm x 87,5 mm x 65 mm
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania:	40 mm ... 2.000 mm ¹⁾
Sensing range:	100 mm ... 2.000 mm
Rodzaj światła:	Światło podczerwone
Nadajnik światła:	LED ²⁾
Nastawa:	Potentiometer
Średnica plamki świetlnej (odległość):	Ø 50 mm (2.000 mm)

¹⁾ Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) ²⁾ Average service life of 100,000 h at T_A = +25 °C

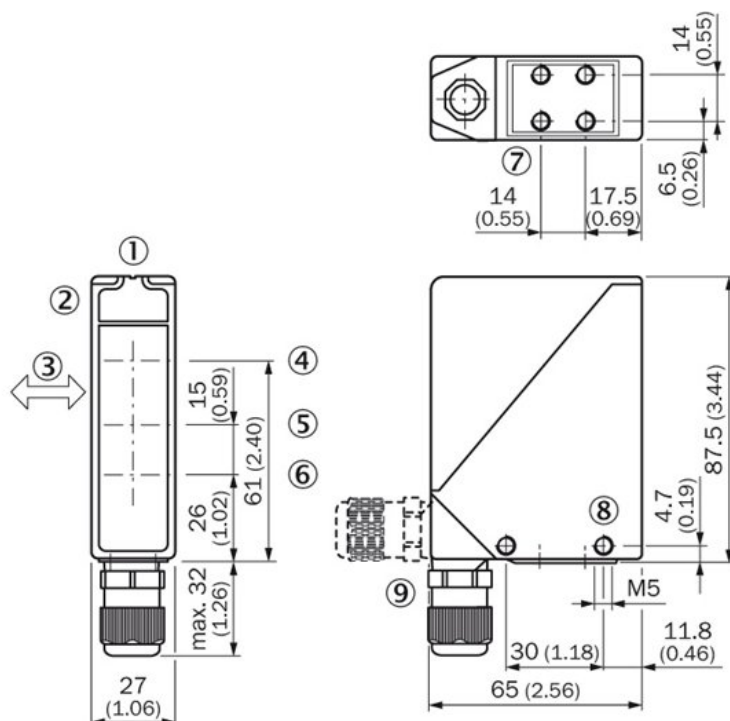
Mechanika/elektronika

Napięcie zasilania:	5 V DC ... 15,5 V DC ¹⁾
Wyjście przełączające:	NAMUR
Tryb przełączania:	Przełączanie na jasnym
Czas reakcji:	≤ 10 ms ²⁾
Switching frequency:	50 Hz ³⁾
Sposób przyłączenia:	Terminal connection with M16 gland ⁴⁾
Układ zabezpieczenia:	A, C ^{5) 6)}
Klasa ochronności:	II ⁷⁾

Ciężar:	330 g
Ogrzewanie przedniej szyby:	-
Tworzywo, obudowa:	Metal, Cynkowa, odlewana
Tworzywo, układ optyczny:	Szkło
Rodzaj zabezpieczenia:	IP 67
Potwierdzenie kontroli typu konstrukcyjnego przez WE:	PTB 03 ATEX 2105
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.:	$\leq 15,5 \text{ V}$ ⁸⁾
Input power P_i max.:	$\leq 100 \text{ mW}$ ⁹⁾
Input current I_i max.:	$\leq 53 \text{ mA}$ ¹⁰⁾
Pojemność wewnętrzna:	80 nF ¹¹⁾
Pojemność zewnętrzna:	$0 \text{ }\mu\text{H}$ ¹²⁾
Ambient operating temperature:	-20 °C ... 60 °C
Ambient storage temperature:	-25 °C ... 70 °C

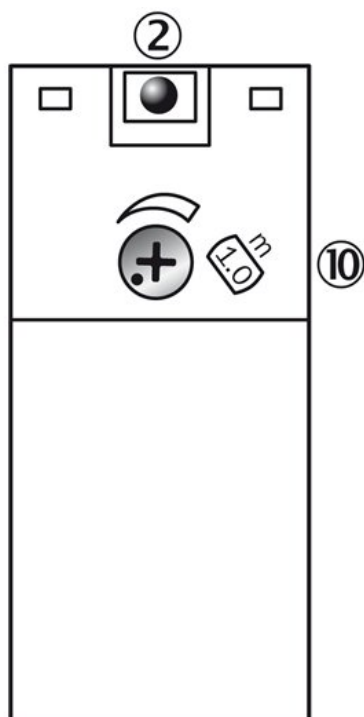
¹⁾ Limit values, supply with switching amplifier EN2Ex (internal resistor approx. 1 kOhm) ²⁾ Signal transit time with resistive load ³⁾ With light/dark ratio 1:1 ⁴⁾
Connection rotatable by 90° ⁵⁾ $A = \frac{V}{S}$ connections reverse-polarity protected ⁶⁾ C = interference suppression ⁷⁾ Reference voltage 50 V DC ^{8) 9) 10) 11) 12)} For
connection to a sperately certified intrinsically safe circuit only

Dimensional drawing



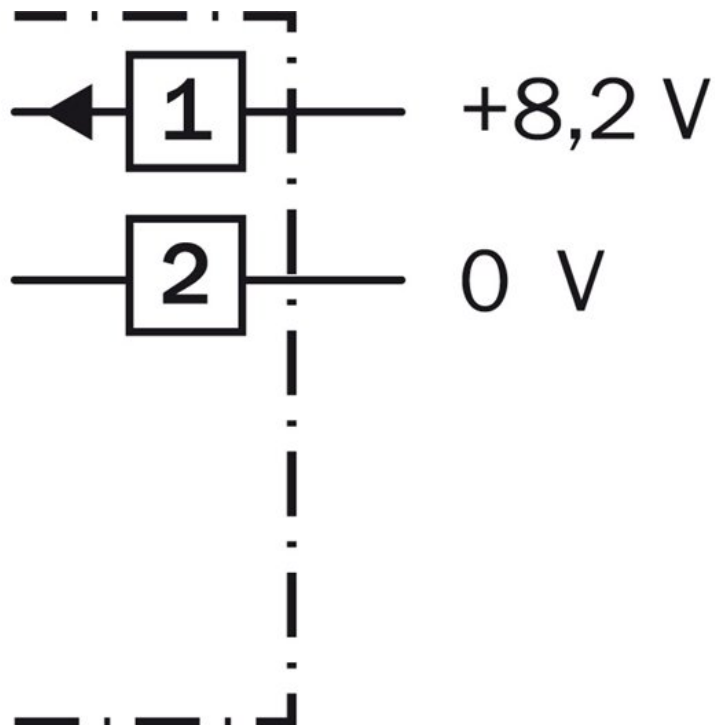
- [1] Alignment sight
- [2] LED signal strength indicator
- [3] Standard direction of the material being scanned
- [4] Center of optical axis, sender
- [5] Centre of optical axis, receiver (close range)
- [6] Centre of optical axis, receiver (far range)
- [7] M5 threaded mounting hole, 6 mm deep
- [8] M5 threaded mounting hole, through-hole
- [9] M16 screw fixing and plug rotatable by 90°

Adjustments possible

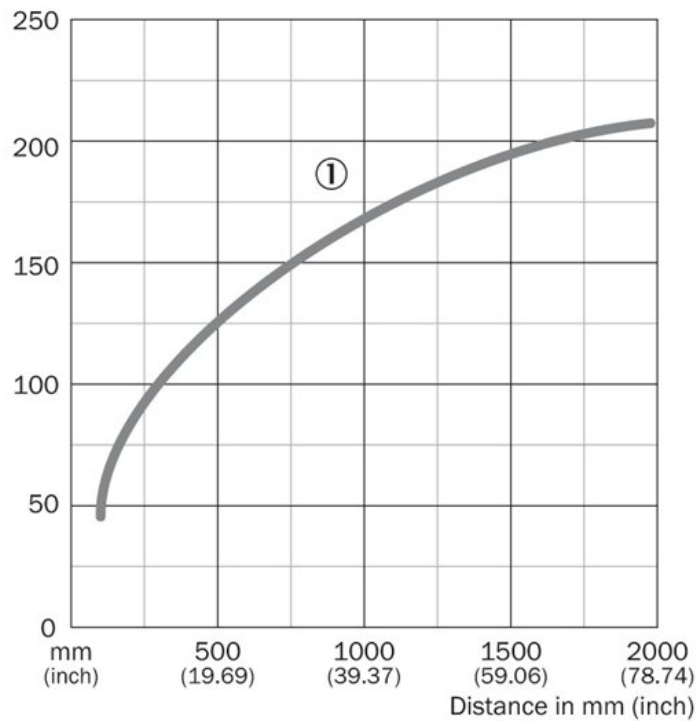


|2| LED signal strength indicator
|10| Sensing range adjustment

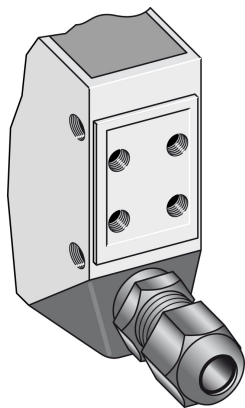
Connection diagram



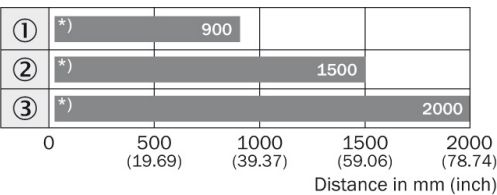
Characteristic curve



Connection type



Sensing range diagram



■ Sensing range

- ① Sensing range on black, 6 % remission
- ② Sensing range on gray, 18 % remission
- ③ Sensing range on white, 90 % remission

*) Lower bound of detection area depending on the adjusted sensing distance (see blind zone curve)

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