



Fotoprzełączniki W24-2, Fotoprzełącznik odbiciowy, Tłumienie tła

WT24-2R220

Nazwa modelu > **WT24-2R220**

Numer części > **1016854**



At a glance

- Precise background suppression at ranges up to 2500 mm
- Immune to ambient light and crosstalk from another photoelectric sensor
- Switch selectable PNP or NPN output, Switch selectable Light or Dark operating mode
- Variants with DC voltage and universal AC/DC voltage with UL approval
- Optional test input, adjustable ON and OFF time delays, alarm output and front screen heating also available in high-power version
- M12 or terminal chamber connection: 90° rotatable
- Red light or long-range IR

Your benefits

- Metal housing that has been IP 69K tested provides reliability and a long service life
- Immune to ambient light and crosstalk, reducing sensor downtime
- Precise detection at long sensing ranges
- User interface is stored under a durable protection hood to prevent unwanted tampering and protect vital components
- Selectable output type, operating mode, and adjustable time delays makes integration easier and reduce the number of devices needed
- Variants with DC voltage and universal AC/DC voltage provide installation flexibility



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzeekażnik 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:	100 mm ... 2.500 mm ¹⁾
Sensing range:	100 mm ... 2.500 mm
Rodzaj światła:	Światło podczerwone
Nadajnik światła:	LED ²⁾
Light spot diameter (distance):	Ø 80 mm (2.500 mm)
Adjustment of operating distance:	Potentiometer
Typ czasu:	Przełącznik z opóźniaczem
Czas opóźnienia:	Adjustable via time delay selector switch: 0,5 ... 10 s

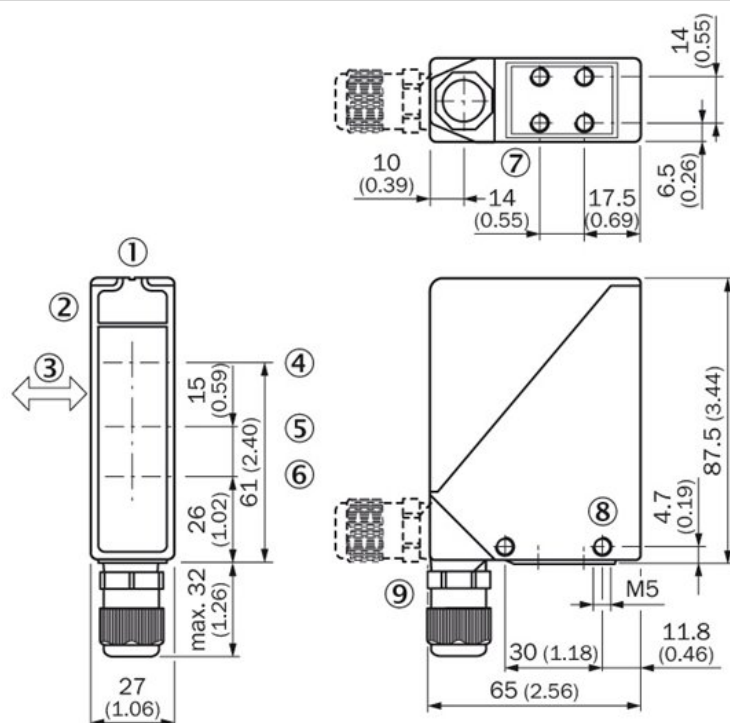
¹⁾ Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) ²⁾ Average service life 100,000 h at Ta = +25 °C

Mechanika/elektronika

Napięcie zasilania::	12 V DC ... 240 V DC ^{1) 2)}
Pobór mocy:	< 3 VA
Wyjście przełączające:	Relay, przełączanie jasno/ciemno, wybierane, selectable via light/dark selector, change-over contacts, electrically isolated ³⁾
Tryb przełączania:	Change-over contacts
Switching mode selector:	Selectable via light/dark selector
Maks. prąd łączeniowy:	4 A (24 V DC), 4 A (250 V AC)
Czas reakcji:	≤ 10 ms
Switching frequency:	10 Hz ⁴⁾
Sposób przyłączenia:	Terminal connection with M16 gland ⁵⁾
Układ zabezpieczenia::	A, C ^{6) 7)}
Klasa ochronności:	II ⁸⁾
Ciężar:	330 g
Ogrzewanie przedniej szyby:	✓
Tworzywo, obudowa:	Cynkowa, odlewana
Tworzywo, układ optyczny:	PMMA
Rodzaj zabezpieczenia:	IP 69K
Usage category:	AC-15, DC-13, According to EN 60947-1
Ambient operating temperature:	-40 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 75 °C
Switching mode characteristic:	Electrically isolated

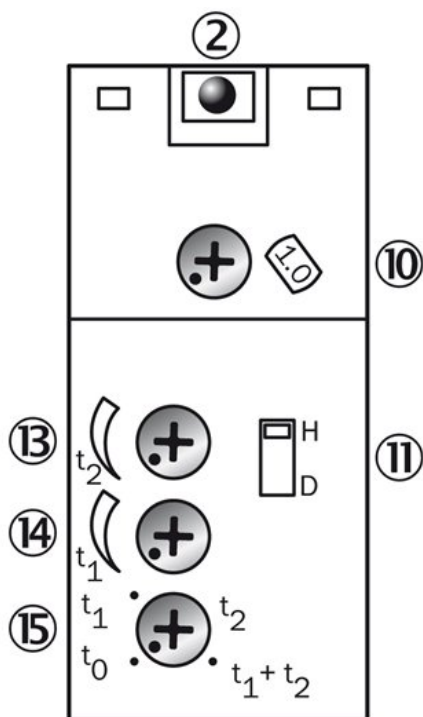
¹⁾ Limit values ²⁾ +/- 10 % ³⁾ Provide suitable spark suppression for inductive or capacitive loads ⁴⁾ With light/dark ratio 1:1 ⁵⁾ Connection rotatable by 90° ⁶⁾ A = V_S
connections reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ Rated voltage 250 V AC/DC

Dimensional drawing



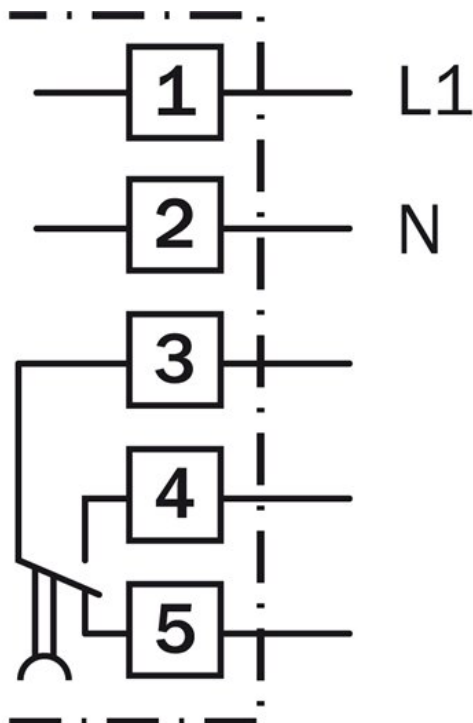
- |1| Alignment sight
- |2| LED signal strength indicator
- |3| Standard direction of the material being scanned
- |4| Center of optical axis, sender
- |5| Centre of optical axis, receiver (close range)
- |6| Centre of optical axis, receiver (far range)
- |7| M5 threaded mounting hole, 6 mm deep
- |8|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

Adjustments possible

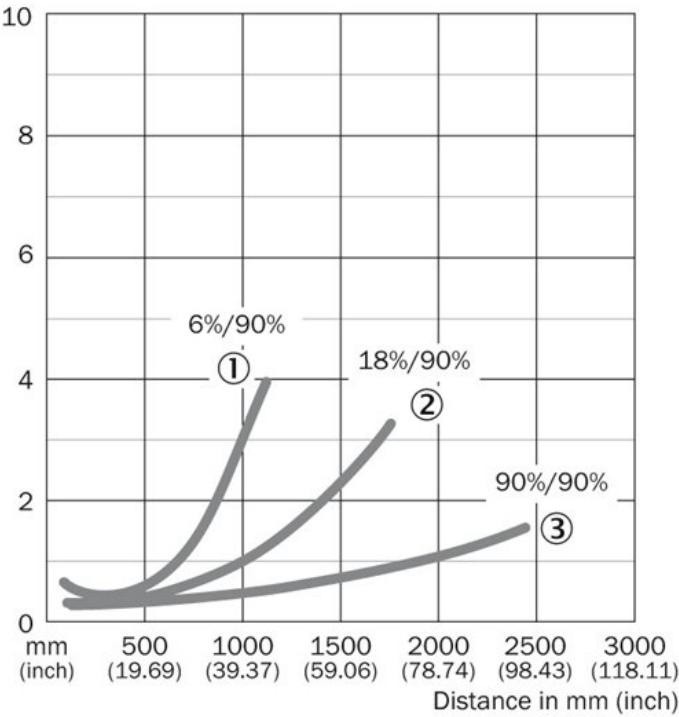


- |2| LED signal strength indicator
- |10| Sensing distance adjustment
- |11| Light/dark selector
- |12| Time control t₂=OFF-delay
- |13| Time control t₁=ON-delay
- |14| time delay selector switch

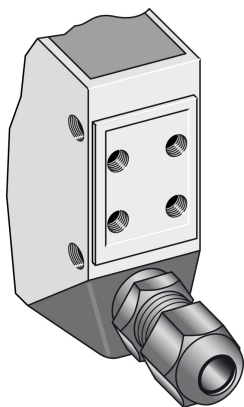
Connection diagram



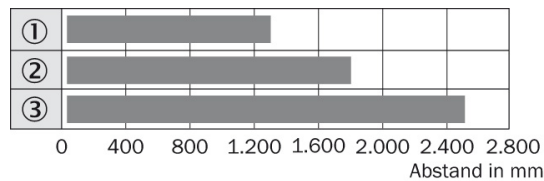
Characteristic curve



Connection type



Sensing range diagram



- Betriebstastweite
- ① Tastbereich auf Schwarz, 6 % Remission
 - ② Tastbereich auf Grau, 18 % Remission
 - ③ Tastbereich auf Weiß, 90 % Remission

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