



Fotoprzełączniki W24-2, Fotoprzełącznik refleksyjny, Standard optics

WL24-2R538



SICK
Sensor Intelligence.

Nazwa modelu > **WL24-2R538**

Numer części > **1018313**



At a glance

- Metal housing that has been IP 69k tested
- 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
- M12 or terminal chamber connection: 90° rotatable

Your benefits

- Metal housing that has been IP 69K tested provides reliability and a long service life
- High operating reserve at a long sensing range reduces downtime
- Alarm output signals marginal operation to provide an early warning
- Test input provides diagnostic feedback for example misalignment
- Selectable output type, operating mode, and adjustable time delays makes integration easier and reduce the number of devices needed
- Ensuring reliable operation in environments with temperatures fluctuation due to standard or high-power front lens heating (prevention and reduction of condensation water on the front lens)
- Variants with DC voltage and universal AC/DC voltage provide installation flexibility
- Red light provides easy alignment, which saves time



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzeekażnik refleksyjny, Standard optics
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 m ... 15 m ²⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	LED ³⁾
Light spot diameter (distance):	Ø 250 mm (15 m)
Nastawienie czułości:	Sensitivity adjustment

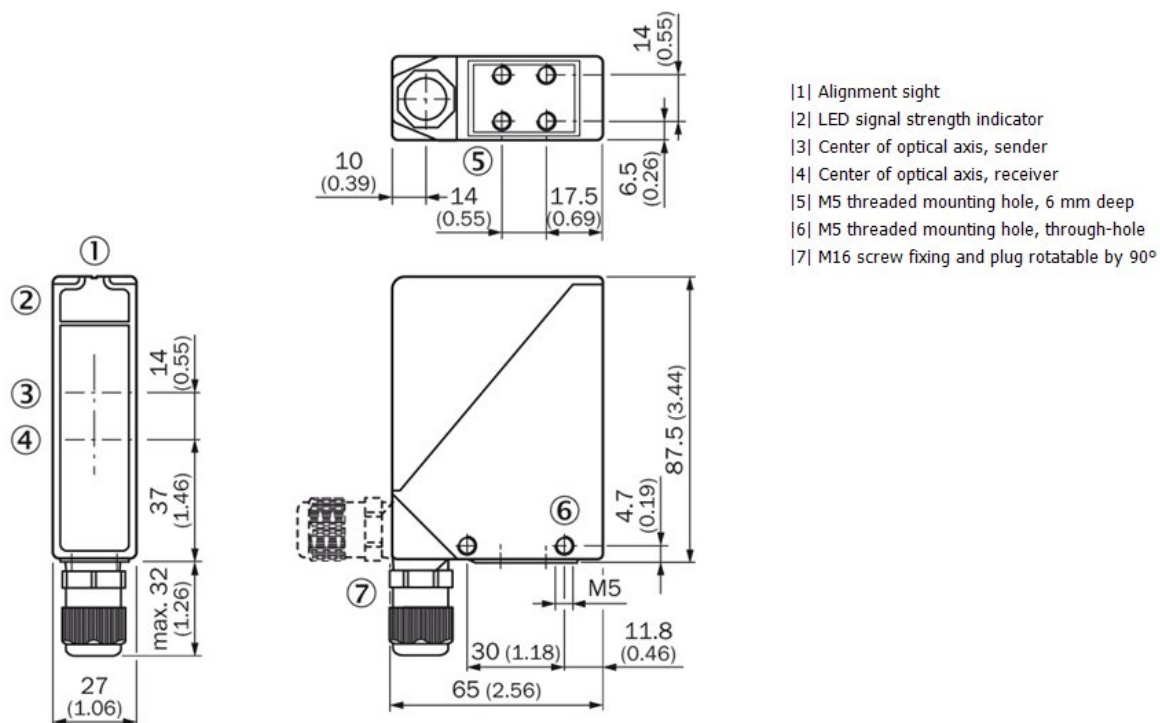
1) 2) PL80A 3) Average service life 100,000 h at Ta = +25 °C

Mechanika/elektronika

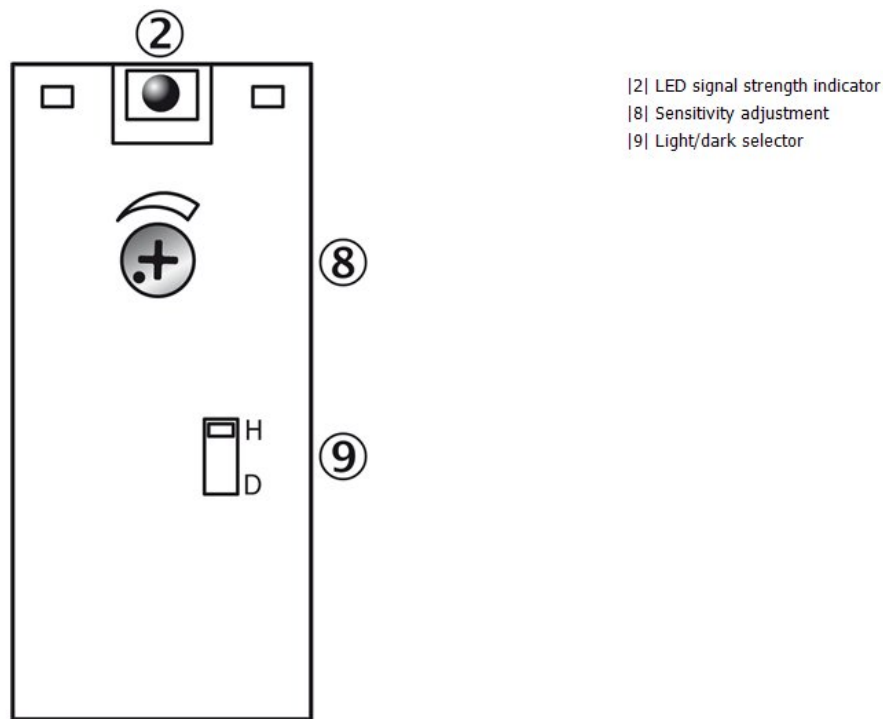
Napięcie zasilania::	12 V DC ... 240 V DC 24 ... 240 V AC ^{1) 2)}
Pobór mocy:	< 2 VA
Wyjście przełączające:	Relay, przełączanie jasno/ciemno, wybierane, selectable via light/dark selector, change-over contacts, electrically isolated ³⁾
Tryb przełączania:	Change-over contacts
Switching mode selector:	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:	Mini connector 7/8", 5-pin ⁵⁾
Układ zabezpieczenia::	A, C ^{6) 7)}
Klasa ochronności:	II ⁸⁾
Ciężar:	330 g
Filtr polaryzacyjny:	✓
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
UL File-No.:	UL No. NRKH.E181493 & cUL No. NRKH7.E181493
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

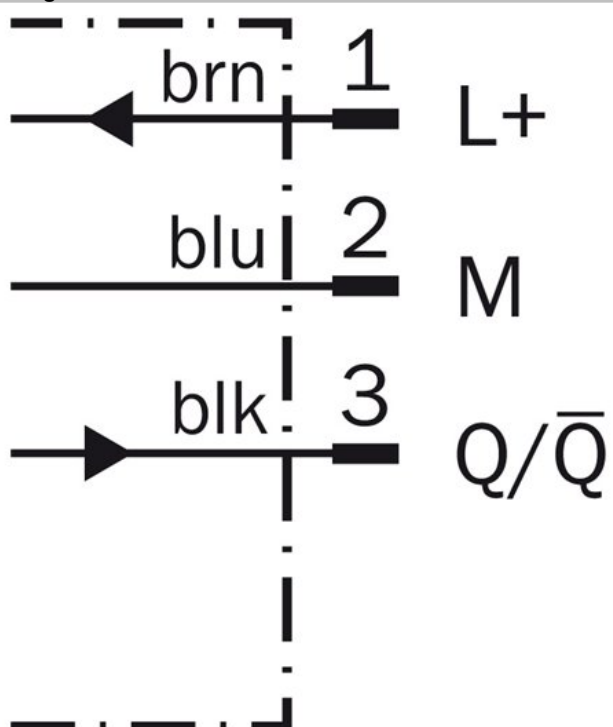
Dimensional drawing



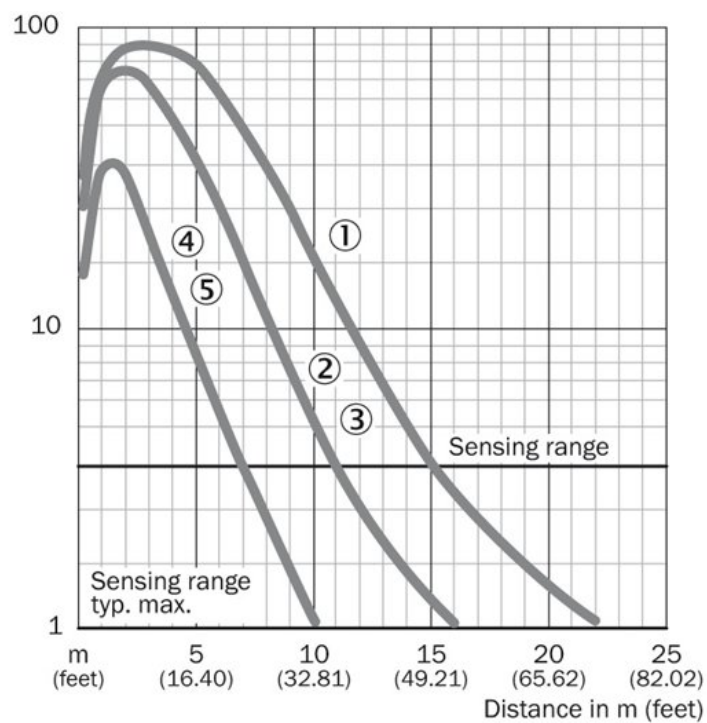
Adjustments possible



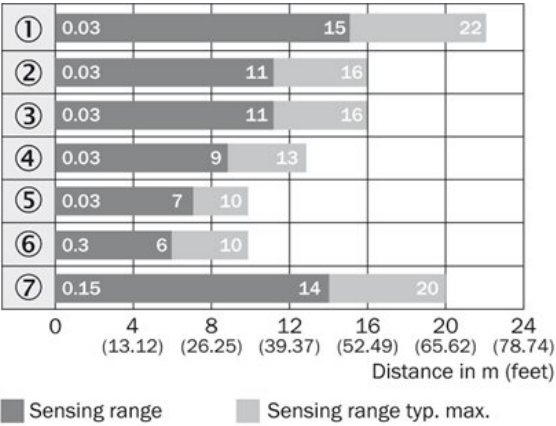
Connection diagram



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

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