



Fotoprzełączniki W27-3, Fotoprzełącznik refleksyjny, Standard optics

WL27-3R2631S02



SICK
Sensor Intelligence.

Nazwa modelu > **WL27-3R2631S02**

Numer części > **1029144**



At a glance

- Long sensing range with a high operating reserve
- Quick alignment with red emitting LED
- Resistant to ambient noise such as crosstalk from another sensor
- Optional front screen heating and time delays
- Operating temperature: -40 °C - +60 °C
- UL approval

Your benefits

- Resistant to contamination due to high operating reserve
- Optional features, such as time delays, enhance functionality when needed
- Resistant to vibrations, reducing downtime
- Reliable operation in harsh environments with temperatures as low as -40 °C
- Durable housing with reinforced mounting holes withstands harsh conditions
- Quick alignment with red emitting LED



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik refleksyjny, Standard optics
Wymiary (Szer. x Wys. x Głęb.):	24,6 mm x 80,6 mm x 54 mm
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania:	0,1 m ... 15 m ¹⁾
Sensing range:	0,1 m ... 11 m ²⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	LED ³⁾
Light spot (distance):	220 mm (10 m)
Długość fali:	660 nm
Nastawienie czułości:	Potentiometer
Typ czasu:	Przełącznik z opóźniaczem
Czas opóźnienia:	Adjustable via time delay selector switch: 0,5 ... 1 s
Kąt promieniowania:	1,5 °

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

Mechanika/elektronika

Napięcie zasilania:	24 V AC/DC ... 240 V AC/DC ¹⁾
Pobór mocy:	≤ 2,5 VA

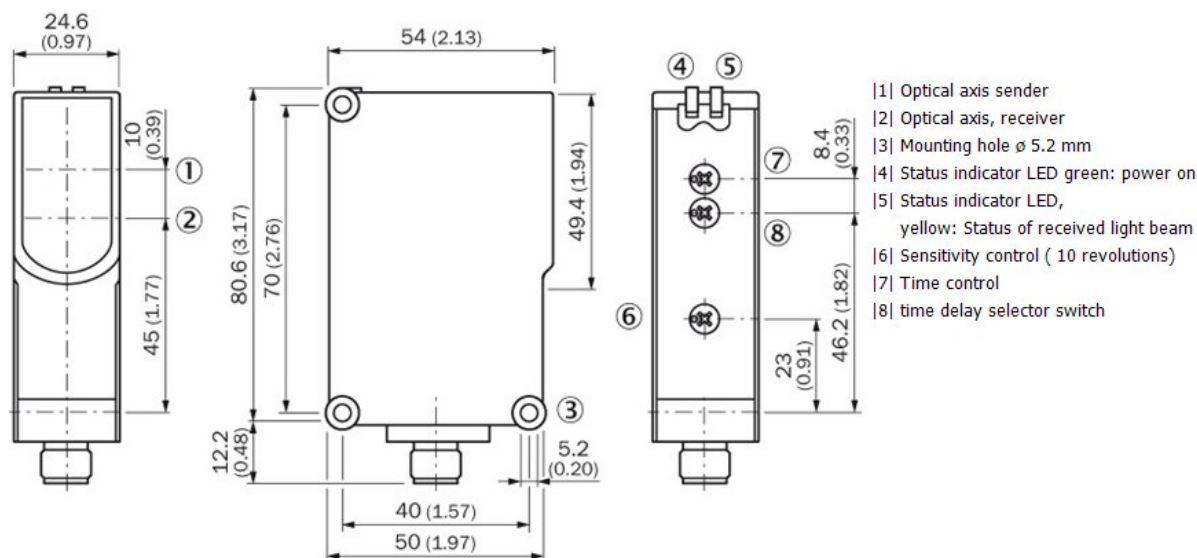
Wyjście przełączające:	Relay, przełączanie jasno/ciemno, wybierane, selectable via time delay selector switch, change-over contacts, electrically isolated ²⁾
Maks. prąd łączeniowy:	0,11 A (250 V DC), 3 A (24 V DC), 3 A (250 V AC)
Czas reakcji:	≤ 10 ms
Switching frequency:	10 Hz ³⁾
Typ połączenia:	Connector Q6, 6-pin, AC/UC-coding
Układ zabezpieczenia::	A, C ⁴⁾ ⁵⁾
Klasa ochronności:	II ⁶⁾
Ciężar:	120 g
Filtr polaryzacyjny:	✓
Special device:	✓
Tworzywo, obudowa:	ABS
Tworzywo, układ optyczny:	PMMA
Rodzaj zabezpieczenia:	IP 65
Funkcje specjalne:	Time delay selectable from 0,05 s to 1,0 s
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

1) +/- 10 % 2) Provide suitable spark suppression for inductive or capacitive loads. Relay contacts are separated from the power supply by a basic isolation of 3 mm.

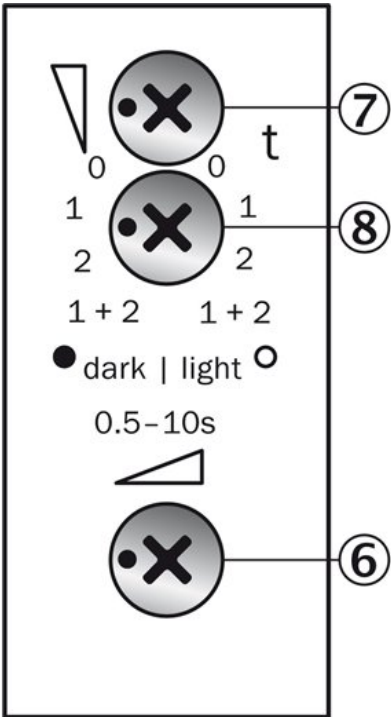
Depending on the application, additional isolation might have to be applied in the user's circuit. ³⁾ With light/dark ratio 1:1 ⁴⁾ A = V_S connections reverse-polarity

protected ⁵⁾ C = interference suppression ⁶⁾ Reference voltage 250 V AC

Dimensional drawing

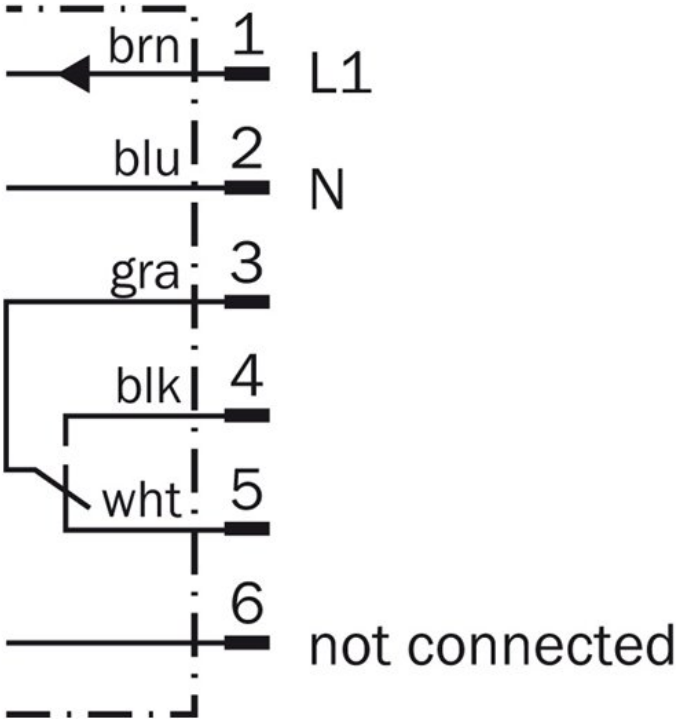


Adjustments possible

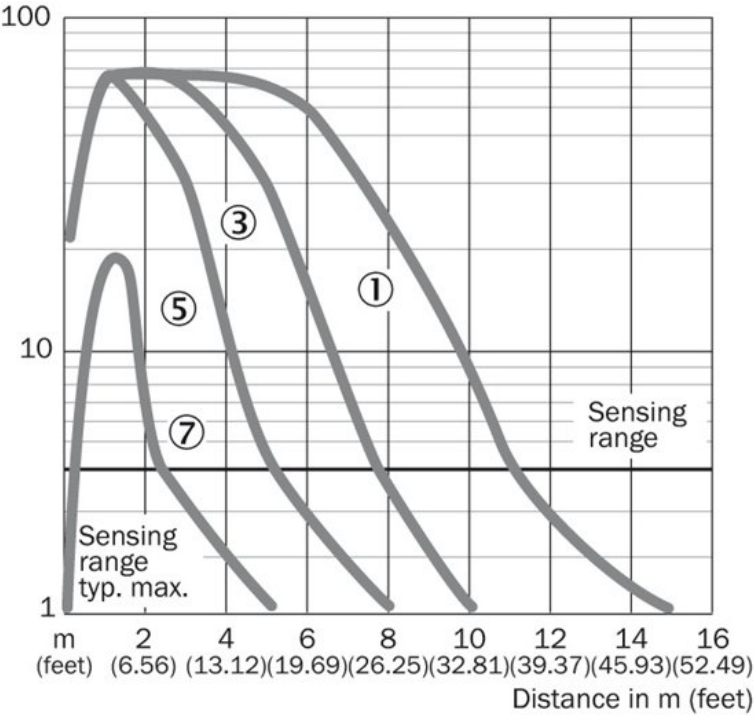


- |6| Sensitivity adjustment: poti
- |7| Time control
- |8| time delay selector switch

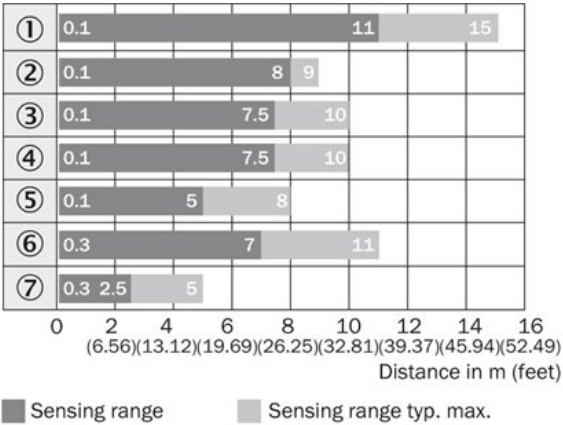
Connection diagram



Characteristic curve



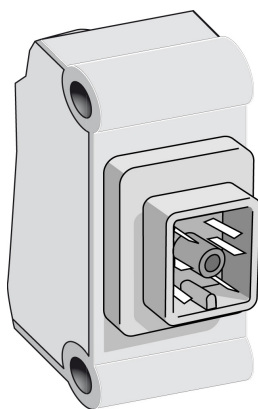
Sensing range diagram



Reflector type

- ① PL80A
- ② PL50A
- ③ PL40A
- ④ PL30A
- ⑤ PL20A
- ⑥ C110
- ⑦ Reflective tape Diamond Grade

Connection type



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