



Fotoprzełączniki W27-3, Fotoprzełącznik odbiciowy, Tłumienie tła

WTB27-3S1511S01



Nazwa modelu > **WTB27-3S1511S01**

Numer części > **1029143**



Produkt może różnić się od ilustracji

At a glance

- Precise background suppression with no scanning distance drift
- PinPoint technology: intense red LED with consistent light spot
- Resistant to ambient light, optical reflections, and crosstalk from other photoelectric devices
- Sensing range adjustment with potentiometer or teach-in
- Operating temperature: -40 °C to +60 °C
- Flexible sensing ranges and hysteresis settings
- Key lock function, remote teach, quality monitoring
- Diagnostics messages (contamination and short-circuit)

Your benefits

- PinPoint technology can replace laser photoelectric proximity sensors in some applications. No laser safety regulations and a longer operating life due to PinPoint technology
- Less downtime due to ASIC (application-specific integrated circuit) chip technology by SICK
- Resistant to ambient light, optical reflections, and immune to crosstalk from other photoelectric devices, reducing false detection
- Durable housing with reinforced mounting holes withstands harsh conditions
- Reliable operation in harsh environments with temperatures as low as -40 °C
- Quick and easy format adjustment
- Easy monitoring of sensor status
- Key lock function and parameter download prevent incorrect settings
- Simple sensor cloning



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, Tłumienie tła
Wymiary (Szer. x Wys. x Głęb.):	24,6 mm x 80,6 mm x 54 mm
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania:	30 mm ... 1.600 mm ¹⁾
Sensing range:	100 mm ... 1.600 mm
Rodzaj światła:	Światło podczerwone
Nadajnik światła:	LED ²⁾
Długość fali:	880 nm
Nastawa:	Potentiometer
Średnica plamki świetlnej (odległość):	Ø 25 mm (800 mm)

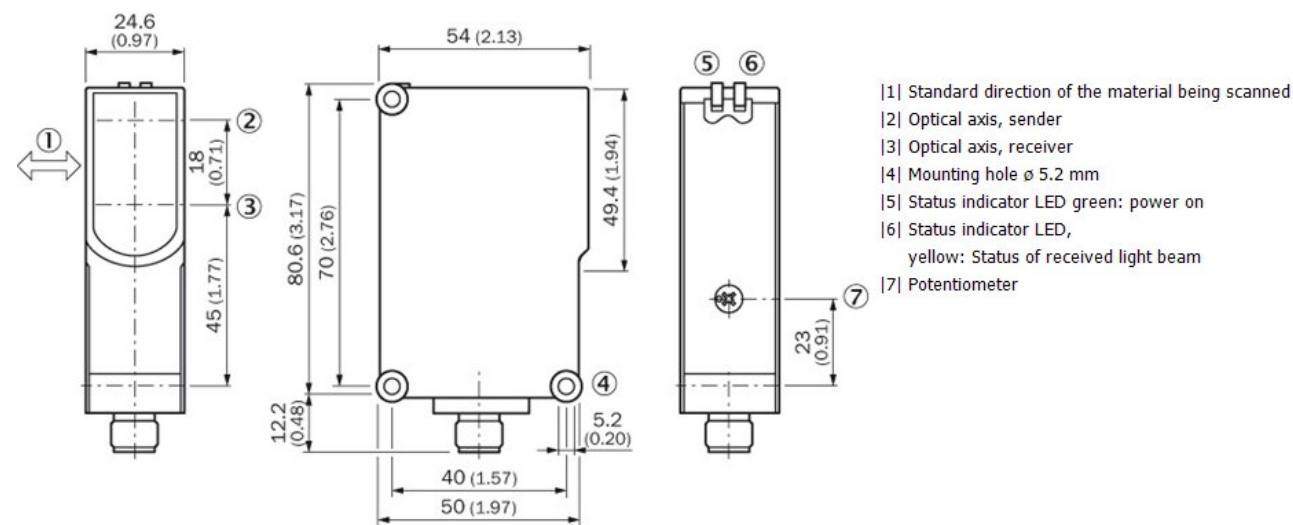
¹⁾ Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) ²⁾ Average service life of 100,000 h at T_A = +25 °C

Mechanika/elektronika

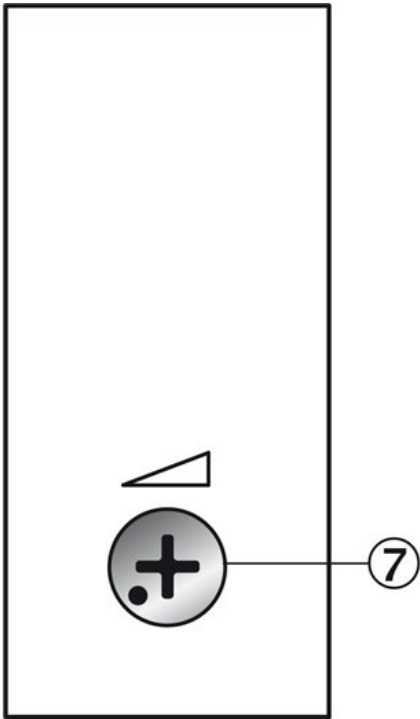
Napięcie zasilania:	24 V AC/DC ... 240 V AC/DC ¹⁾
Pobór mocy:	≤ 2,5 VA
Wyjście przełączające:	Relay
Tryb przełączania:	Change-over contacts
Tryb przełączania:	Przełączanie na jasnym ²⁾
Output characteristic:	Electrically isolated
Maks. prąd łączeniowy:	0,11 A (250 V DC), 3 A (24 V DC), 3 A (250 V AC)
Czas reakcji:	≤ 10 ms
Switching frequency:	10 Hz ³⁾
Typ połączenia:	Cable, 5-wire, 2 m ⁴⁾
Cable material:	PVC
Układ zabezpieczenia:	A, C ⁵⁾ ⁶⁾
Klasa ochronności:	II ⁷⁾
Ciężar:	200 g
IO-Link:	-
Special device:	✓
Tworzywo, obudowa:	ABS, Tworzywo sztuczne
Tworzywo, układ optyczny:	PMMA
Rodzaj zabezpieczenia:	IP 66 IP 67
Funkcje specjalne:	For extreme shock loads
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.:	NRKH.E181493 & NRKH7.E181493

¹⁾ ± 10 % ²⁾ Provide suitable spark suppression for inductive or capacitive loads ³⁾ With light/dark ratio 1:1 ⁴⁾ Do not bend below 0 °C ⁵⁾ A = V_S connections reverse-polarity protected ⁶⁾ C = interference suppression ⁷⁾ Reference voltage 250 V AC

Dimensional drawing

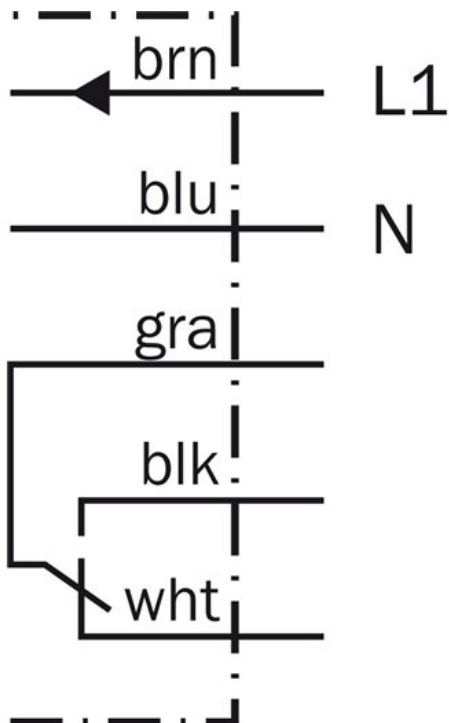


Adjustments possible

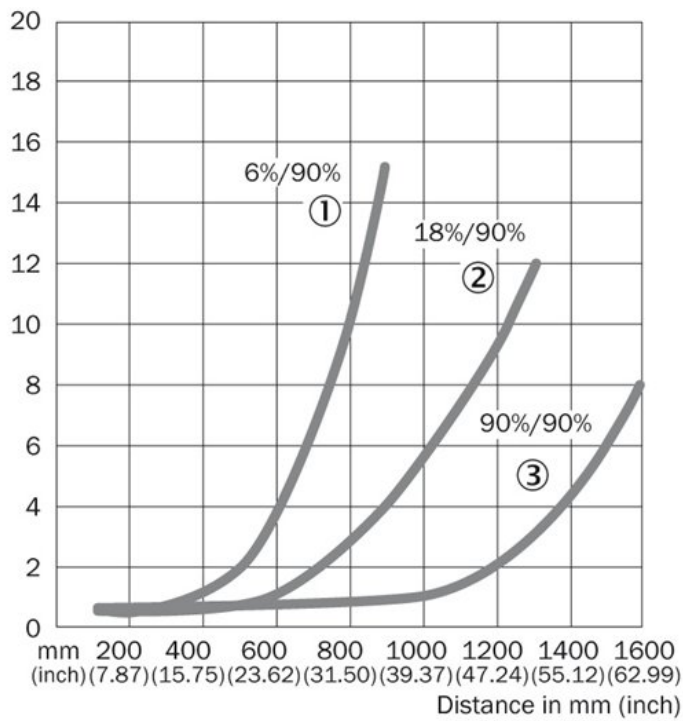


[7] Sensing range adjustment: potentiometer

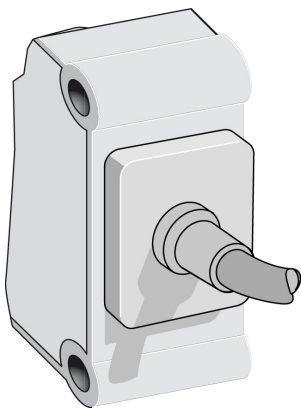
Connection diagram



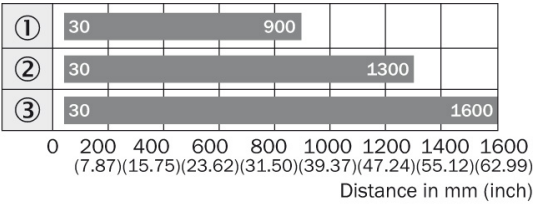
Characteristic curve



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

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