



Photoelectric sensors W11-2, Fotoprzełącznik odbiciowy, energetyczny

WTE11-2N2432



Nazwa modelu > **WTE11-2N2432**

Numer części > **1041383**



At a glance

- Energetic proximity sensor
- Rugged housing for industrial use
- PinPoint LED technology with a highly visible light spot
- Space-saving plastic housing in chemically, thermally or mechanically resistant designs
- Dovetail mounting - standard mounting holes and oblong holes
- Highly visible 360° status LEDs
- Simple sensing distance adjustment via teach-in pushbutton
- Operating distance up to 1,000 mm

Your benefits

- Reliable detection of objects ranging from light to dark thanks to superior chip technology
- PinPoint LED technology provides a bright, small and precise light spot that enables quick and easy sensor alignment
- Precise switching characteristics ensure high performance even in changing application conditions
- Rugged housing design withstands harsh environments, reducing downtime and maintenance effort
- Highly visible 360° status LEDs provide quick and easy setup without additional personnel or costly training
- Easy installation using SICK accessories



Cechy

Wymiary (Szer. x Wys. x Głęb.):	15,6 mm x 48,5 mm x 42 mm
Maks. strefa działania:	40 mm ... 1.000 mm ¹⁾
Sensing range:	40 mm ... 600 mm
Housing desig (light emission):	Prostopadłościenna
Nadajnik światła:	LED ²⁾
Rodzaj światła:	widzialne światło czerwone
Długość fali:	633 nm
Nastawienie czułości:	Teach
Teach-in:	single teach-in button
Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, energetyczny
Light spot (distance):	90 mm (600 mm)

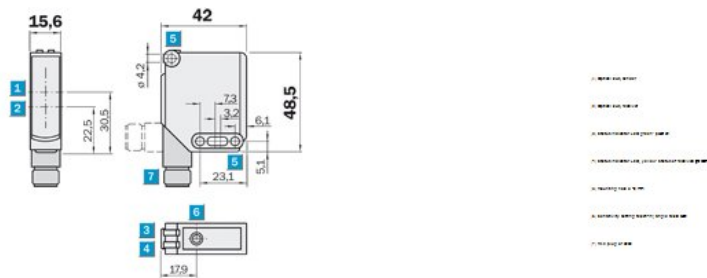
¹⁾ Obiekt odbijający 90% światła (standardowy biały zgodnie z norma DIN 5033) ²⁾ Average service life 100,000 h at Ta = +25 °C

Mechanika/elektronika

Rodzaj zabezpieczenia:	IP 66 IP 67
Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	≤ 5 Vss ²⁾
Pobór prądu:	≤ 40 mA ³⁾
Wyjście przełączające:	NPN, przełączanie jasno/ciemno, wybierane, Komplementarne
Output current I _{max} :	100 mA
Czas reakcji:	≤ 2,5 ms ⁴⁾
Switching frequency:	200 Hz ⁵⁾
Sposób przyłączenia:	Connector M12, 4-pin
Klasa ochronności:	II
Układ zabezpieczenia:::	A C D ⁶⁾ ⁷⁾ ⁸⁾
Ciężar:	120 g
Tworzywo, obudowa:	ABS
Tworzywo, układ optyczny:	PMMA
Ambient temperature, operation:	-30 °C ... 60 °C
Ambient temperature, storage:	-40 °C ... 75 °C
Napięcie sygnału NPN HIGH/LOW:	approx. VS / < 2.5 V
UL File-No.:	UL No. NRKH.E181493 & cUL No. NRKH7.E181493

¹⁾ Limit values, operation in short-circuit protected network max. 8 A ²⁾ May not exceed or fall short of V_S ³⁾ Without load ⁴⁾ Signal transit time with resistive load ⁵⁾ With light/dark ratio 1:1 ⁶⁾ A = V_S connections reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ D = outputs overcurrent and short-circuit protected

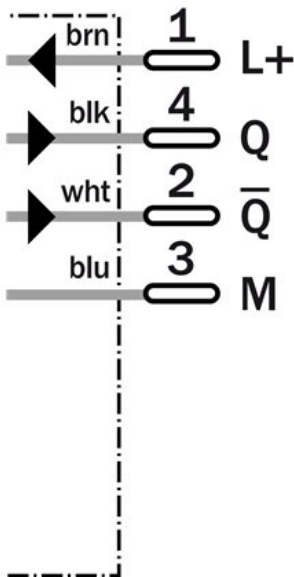
Dimensional drawing



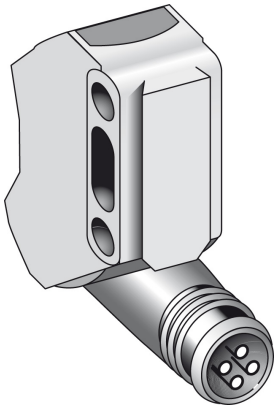
Einstell-Möglichkeiten



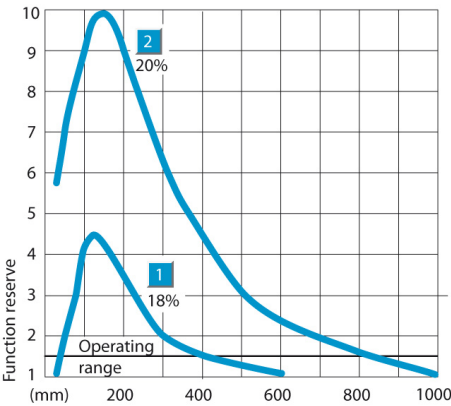
Connection diagram



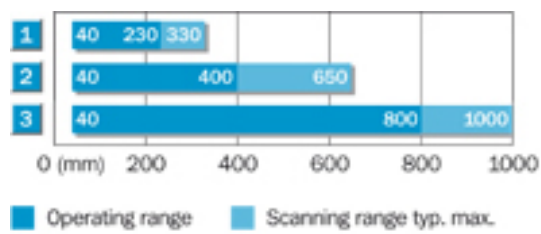
Connection type



Characteristic curve



Sensing range diagram



1	Scanning distance on black, 6 % remission
2	Scanning distance on grey, 18 % remission
3	Scanning distance on white, 90 % remission

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