



Fotoprzełączniki W12-3, Fotoprzełącznik odbiciowy, Tłumienie przedpola

WTF12-3N2433



Nazwa modelu > **WTF12-3N2433**

Numer części > **1041409**



Produkt może różnić się od ilustracji

At a glance

- Precise foreground suppression
- Rugged sensors for industrial use
- PinPoint LED technology with a highly visible light spot
- Die-cast zinc housing, with optional Teflon® coating
- Dovetail mounting - mounting holes and oblong holes
- Flexible sensing ranges and hysteresis settings
- Key lock function, remote teach, quality monitoring
- Diagnostics messages (contamination and short-circuit)

Your benefits

- State of the art technology, e.g. OES3 provides precise foreground suppression in harsh environments
- High immunity to ambient light and crosstalk ensures fewer false readings and less downtime
- PinPoint LED technology provides quick and easy sensor alignment due to a highly visible light spot
- Highly visible status LEDs simplify sensing range adjustments and reduce installation time
- 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 przedpola
Wymiary (Szer. x Wys. x Głęb.):	15,6 mm x 48,5 mm x 42 mm
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania:	30 mm ... 175 mm ¹⁾
Sensing range:	30 mm ... 175 mm
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	LED ²⁾
Długość fali:	640 nm
Teach-in:	Double teach-in button
Nastawa:	Teach-in
Średnica plamki świetlnej (odległość):	Ø 2 mm (60 mm)

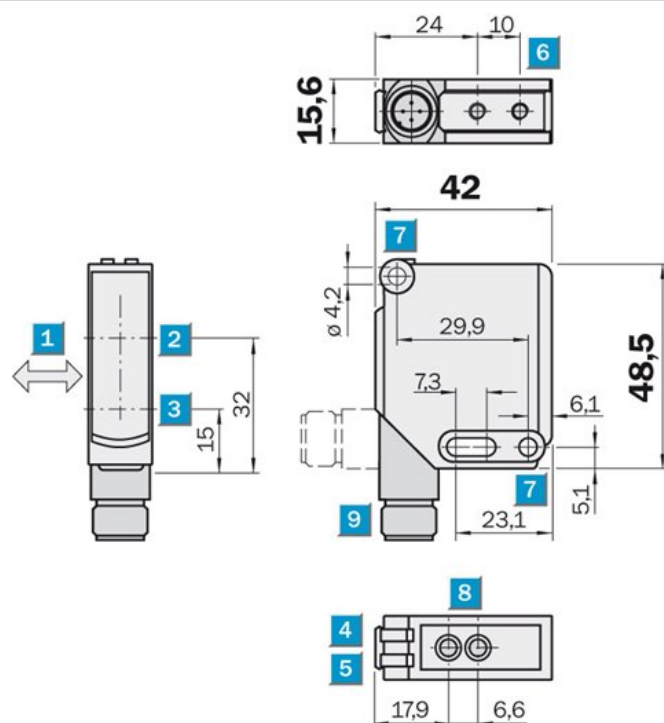
¹⁾ Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) ²⁾ Average service life of 100,000 h at $T_A = +25\text{ °C}$

Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	$\leq 5 V_{SS}$ ²⁾
Current consumption:	$\leq 45\text{ mA}$ ³⁾
Wyjście przełączające:	NPN
Tryb przełączania:	Komplementarne
Tryb przełączania:	Przełączanie jasno/ciemno, wybierane
Napięcie sygnału NPN HIGH/LOW:	Approx. $V_S / < 2.5\text{ V}$
Output current I_{max} :	100 mA
Czas reakcji:	$\leq 330\text{ }\mu\text{s}$ ⁴⁾
Switching frequency:	1.500 Hz ⁵⁾
Sposób przyłączenia:	Connector M12, 4-pin
Układ zabezpieczenia:::	A, C, D ⁶⁾ ⁷⁾ ⁸⁾
Klasa ochronności:	II
Ciężar:	120 g
Tworzywo, obudowa:	Metal
Rodzaj zabezpieczenia:	IP 66 IP 67
Ambient operating temperature:	-40 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 75 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493

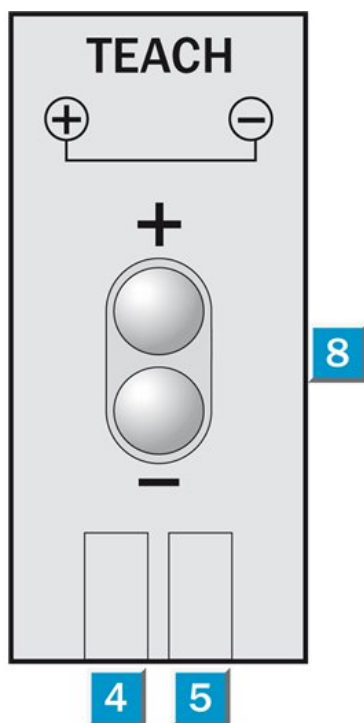
¹⁾ Limit values, operation in short-circuit protected network max. 8 A ²⁾ May not exceed or fall short of V_S tolerances ³⁾ Bez obciążenia ⁴⁾ Signal transit time with resistive load ⁵⁾ With light/dark ratio 1:1 ⁶⁾ $A = V_S$ connections reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ D = outputs overcurrent and short-circuit protected

Dimensional drawing



- |1| Standard direction of the material being scanned
- |2| Optical axis, receiver
- |3| Optical axis, sender
- |4| Status indicator LED green: supply voltage active
- |5| Status indicator LED, yellow: status of received light beam
- |6| M4 threaded mounting hole, 4 mm deep
- |7| Mounting hole, Ø 4.2 mm
- |8| Sensing distance adjustment: Potentiometer
- |9| Connection

Adjustments possible

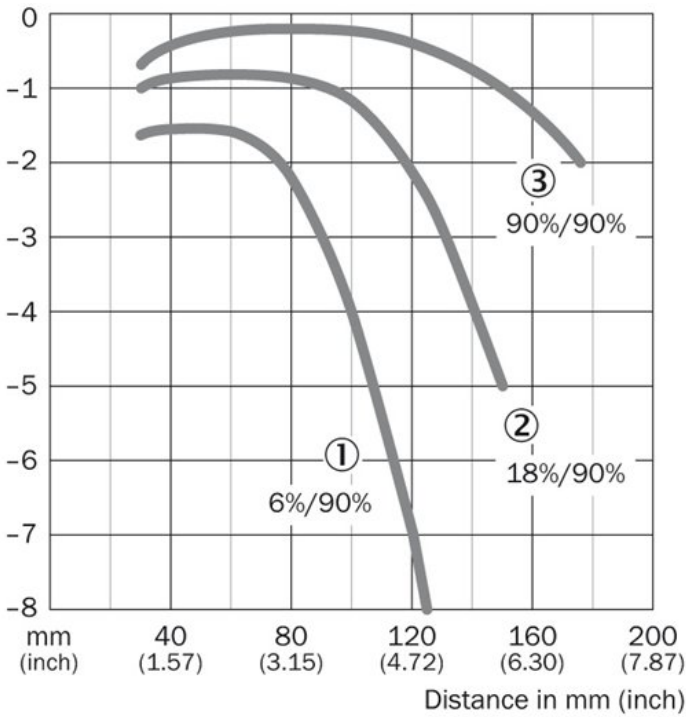


- |4| Green LED indicator: supply voltage active
- |5| LED indicator yellow: Light received
- |8| Sensing distance adjustment, double Teach button

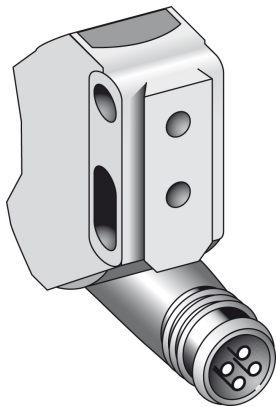
Connection diagram



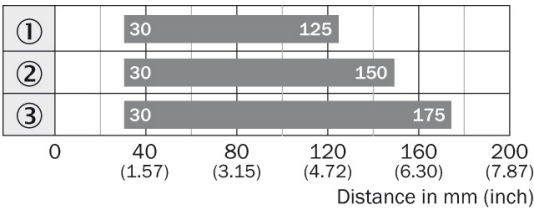
Characteristic curve



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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