



Fotoprzełączniki W150, Fotoprzełącznik odbiciowy, Tłumienie tła

WT150-P460S03

Nazwa modelu > **WT150-P460S03**

Numer części > **1022302**



At a glance

- Background suppression variant with up to 100 mm sensing distance
- Energetic proximity sensor with 250 mm sensing distance
- Sensing distance adjustment via potentiometer
- Light/dark switching selectable via control wire

Your benefits

- Reliable detection of objects regardless of color or surface qualities
- Precise setting of background suppression via potentiometer
- Reliable detection of fast-moving objects
- Brackets included with delivery, ensuring quick and easy installation



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzeźnik odbiciowy, Tłumienie tła
Wymiary (Szer. x Wys. x Głęb.):	10 mm x 28 mm x 18 mm
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania:	2 mm ... 100 mm ¹⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	LED ²⁾
Kąt promieniowania:	Ca. 5 °
Nastawa:	Potencjometr, 5 obrotów
Continuous threshold adaption:	-

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

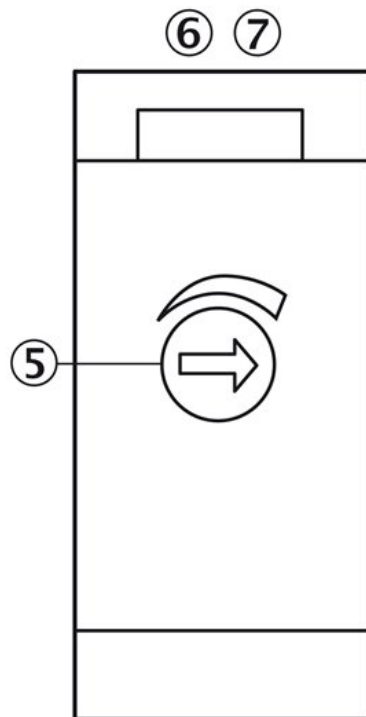
Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	± 10 % ²⁾
Pobór prądu:	≤ 20 mA ³⁾
Wyjście przełączające:	PNP, open collector
Tryb przełączania:	Przełączanie jasno/ciemno, wybierane
Switching mode selector:	Control cable
Output current I _{max} :	≤ 100 mA
Czas reakcji:	≤ 0,5 ms ⁴⁾
Switching frequency:	1.000 Hz ⁵⁾
Sposób przyłączenia:	Connector M8, 4-pin
Układ zabezpieczenia::::	A, B, C, D ⁶⁾ ⁷⁾ ⁸⁾ ⁹⁾

Klasa ochronności:	II
Ciężar:	7 g
Filtr polaryzacyjny:	-
AS-Interface-Chip:	-
Special device:	-
Tworzywo, obudowa:	ABS, Tworzywo sztuczne
Tworzywo, układ optyczny:	PC
Rodzaj zabezpieczenia:	IP 67
Dostawa:	BEF-W150-A mounting bracket, Slotted diaphragm
Ambient operating temperature:	-25 °C ... 55 °C
Ambient storage temperature:	-40 °C ... 75 °C
UL File No.:	NRNT2.E128350 & NRNT8.E128350

Dimensional drawing

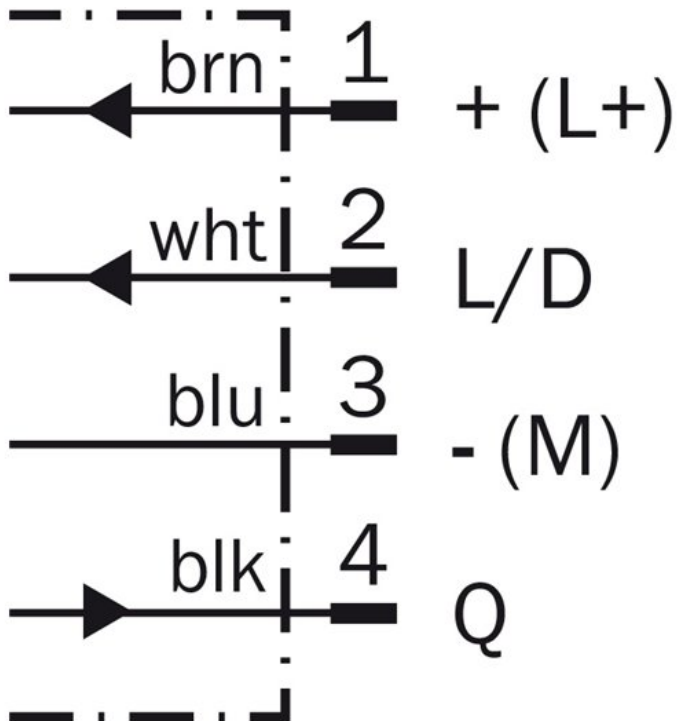
- [1] Standard direction of the material being scanned
- [2] Center of optical axis, receiver
- [3] Center of optical axis, sender
- [4] Mounting hole, $\varnothing$ approx. 3.1 mm
- [5] Sensing range adjustment: potentiometer, 5 turns
- [6] LED indicator green: stability indicator
- [7] LED indicator orange: output active
- [8] Connection

Adjustments possible

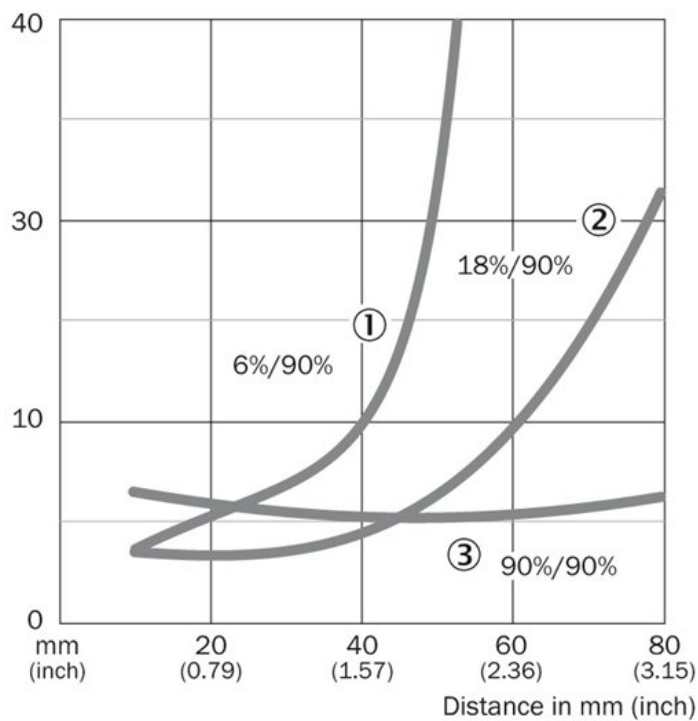


- |5| Sensing range adjustment: potentiometer, 5 turns
- |6| LED indicator green: stability indicator
- |7| LED indicator orange: output active

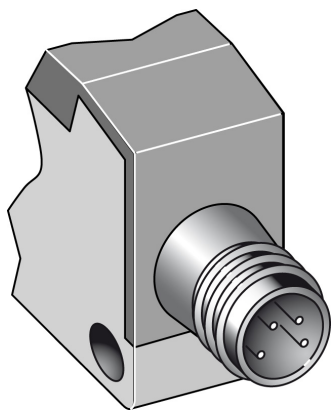
Connection diagram



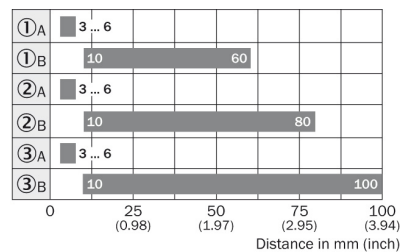
Characteristic curve



Connection type



Sensing range diagram



■ Sensing range

- ① Sensing range on black ¹²⁾/white background
- ② Sensing range on grey ¹²⁾/white background
- ③ Sensing range on white ¹²⁾/white background
- A Sensing range control set to MIN
- B Sensing range control set to MAX

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