



Fotoprzełączniki W23 Laser, Fotoprzełącznik odbiciowy, Tłumienie tła

WT23L-F430



Nazwa modelu > **WT23L-F430**

Numer części > **1045643**



At a glance

- 2 mm light spot diameter at 400 mm range
- Visible red light
- Class I laser
- Precise background suppression

Your benefits

- Precise detection of small objects due to the miniature 2 mm light spot at 400 mm
- No laser safety measures required due to the Class I laser
- Red laser light for quick and easy alignment
- Familiar potentiometer adjustment ensure simple adjustment of the sensing range



Cechy

Wymiary (Szer. x Wys. x Głęb.):	24,6 mm x 80 mm x 53,5 mm
Maks. strefa działania:	50 mm ... 800 mm
Sensing range:	100 mm ... 800 mm
Housing desig (light emission):	Prostopadłościenna
Nadajnik światła:	Laser ¹⁾
Rodzaj światła:	widzialne światło czerwone
Długość fali:	880 nm
Klasa lasera:	1 (IEC 60825-1)
Adjustment of operating distance:	Potentiometer
Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, Tłumienie tła
Light spot (distance):	2 mm (400 mm)

¹⁾ Average service life 50,000 h at Ta = +25 °C

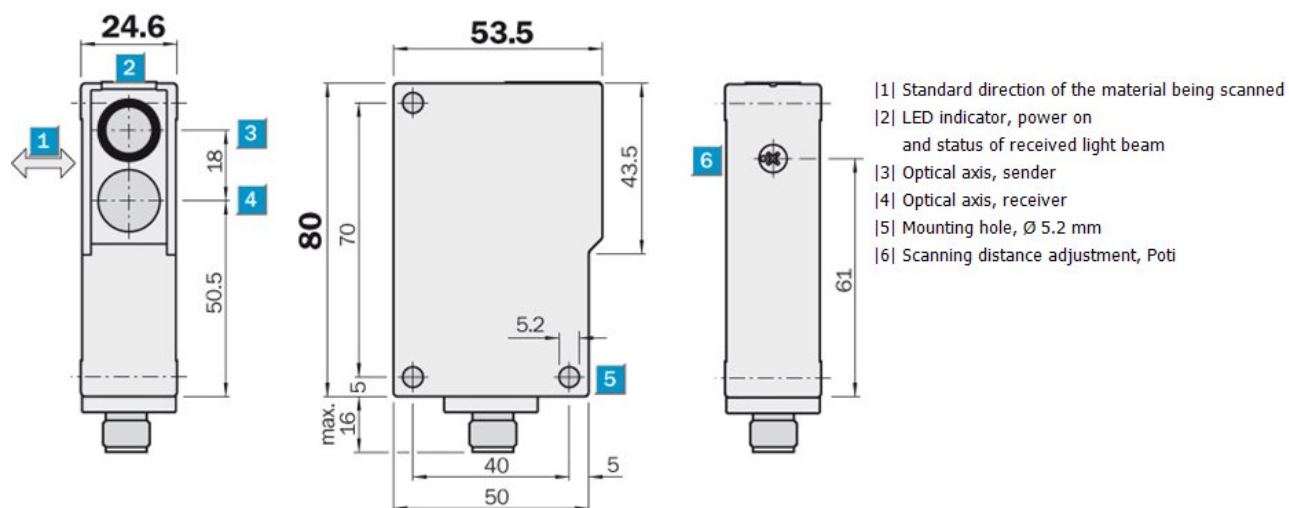
Mechanika/elektronika

Enclosure rating:	IP 65
Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	≤ 5 Vss ²⁾
Current consumption:	≤ 35 mA ³⁾
Wyjście przełączające:	PNP, przełączanie jasno/ciemno, wybierane, Komplementarne
Output current I _{max} ..:	≤ 100 mA ⁴⁾
Czas reakcji:	≤ 25 ms ⁴⁾
Switching frequency:	50 Hz ⁵⁾
Sposób przyłączenia:	Connector M12, 4-pin

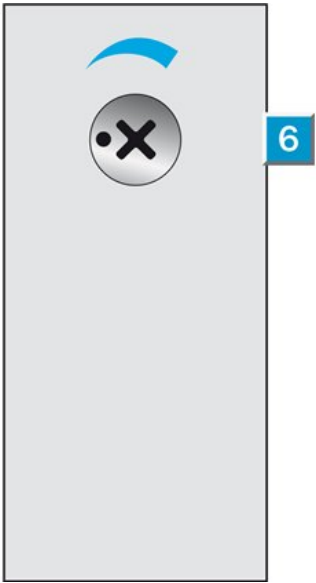
Klasa ochrony: II ⁶⁾
 Układ zabezpieczenia::: A
 C 7) 8) 9)
 D
 Ciężar: 100 g
 Tworzywo, obudowa: ABS
 Tworzywo, układ optyczny: PMMA
 Ambient temperature, operation: -10 °C ... 45 °C
 Ambient temperature, storage: -10 °C ... 75 °C

1) Limit values 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) Reference voltage 50 V DC
 7) $A = V_S$ connections reverse-polarity protected 8) C = interference suppression 9) D = outputs overcurrent and short-circuit protected

Dimensional drawing

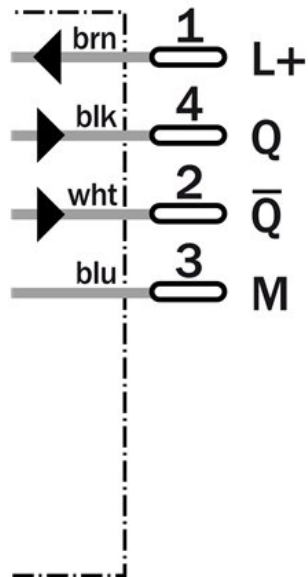


Einstell-Möglichkeiten



|6| Scanning distance adjustment, Poti

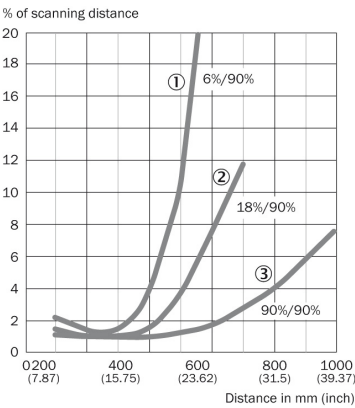
Connection diagram



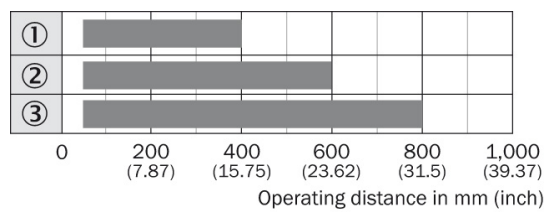
Connection type



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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