



Fotoprzełączniki W27-2 Laser, Fotoprzełącznik odbiciowy, Tłumienie tła

WT27L-2F430A01



Nazwa modelu > **WT27L-2F430A01**

Numer części > **1019512**



At a glance

- 2 mm diameter light spot at a distance of 400 mm
- Precise adjustable background suppression
- Visible red laser LED
- Sensing range adjustment via potentiometer
- UL approval

Your benefits

- Precise detection of very small parts up to a distance of 400 mm due to 2 mm light spot
- Highly visible red laser provides quick and easy alignment
- Durable design provides high resistance to vibration



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, Tłumienie tła
Wymiary (Szer. x Wys. x Głęb.):	24,6 mm x 80 mm x 53,5 mm
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania:	100 mm ... 800 mm ¹⁾
Sensing range:	100 mm ... 800 mm
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	Laser ²⁾
Klasa lasera:	2 (IEC 825), low power. Eyes normally protected by averting reaction and eyelid closing reflex
Light spot diameter (distance):	Ø 2 mm (400 mm)
Adjustment of operating distance:	Potentiometer

¹⁾ Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) ²⁾ Average service life 50,000 h at T_a = +25 °C

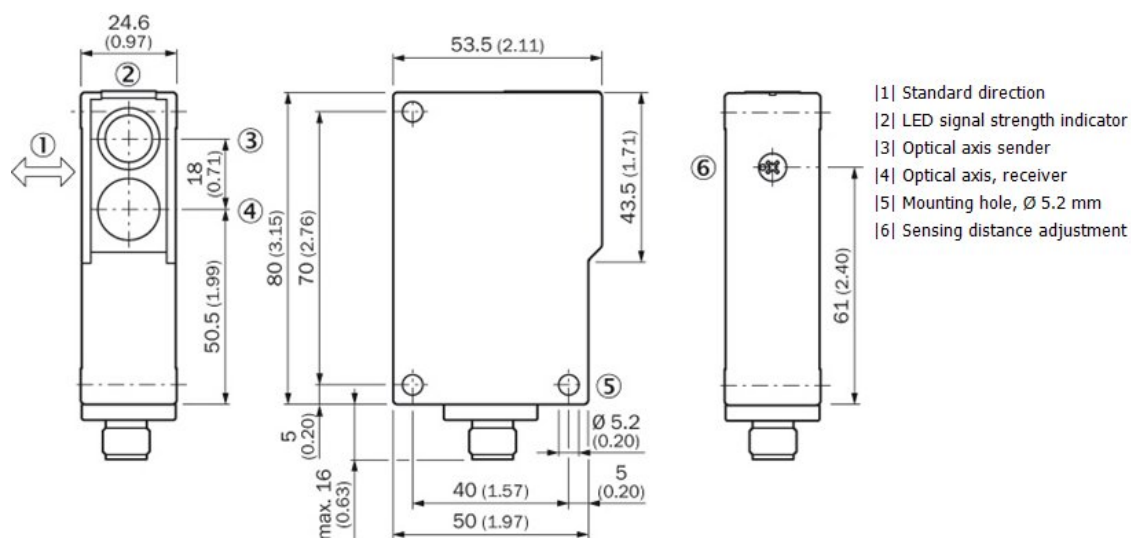
Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	≤ 5 % ²⁾
Current consumption:	≤ 35 mA ³⁾
Wyjście przełączające:	PNP
Tryb przełączania:	Complementary
Tryb przełączania:	Przełączanie jasno/ciemno, wybierane
Output current I _{max} :	100 mA
Czas reakcji:	< 500 µs ⁴⁾

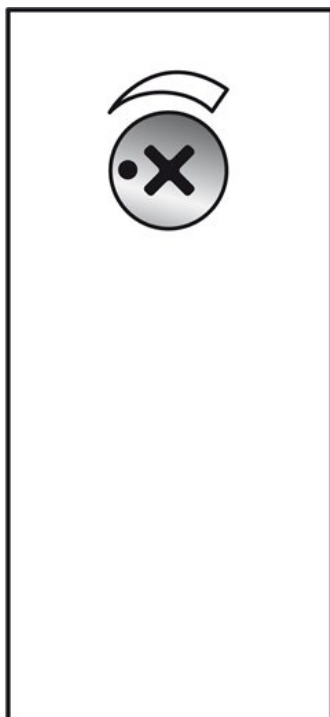
Switching frequency:	1.000 Hz ⁵⁾
Sposób przyłączenia:	Connector M12, 4-pin
Układ zabezpieczenia:::	A, C, D ⁶⁾ ⁷⁾ ⁸⁾
Klasa ochronności:	II ⁹⁾
Ciężar:	100 g
Special device:	✓
Tworzywo, obudowa:	ABS
Rodzaj zabezpieczenia:	IP 67
Ambient operating temperature:	-10 °C ... 45 °C
Ambient storage temperature:	-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⁾ A = V_S connections reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ D = outputs overcurrent and short-circuit protected ⁹⁾ Reference voltage 50 V DC

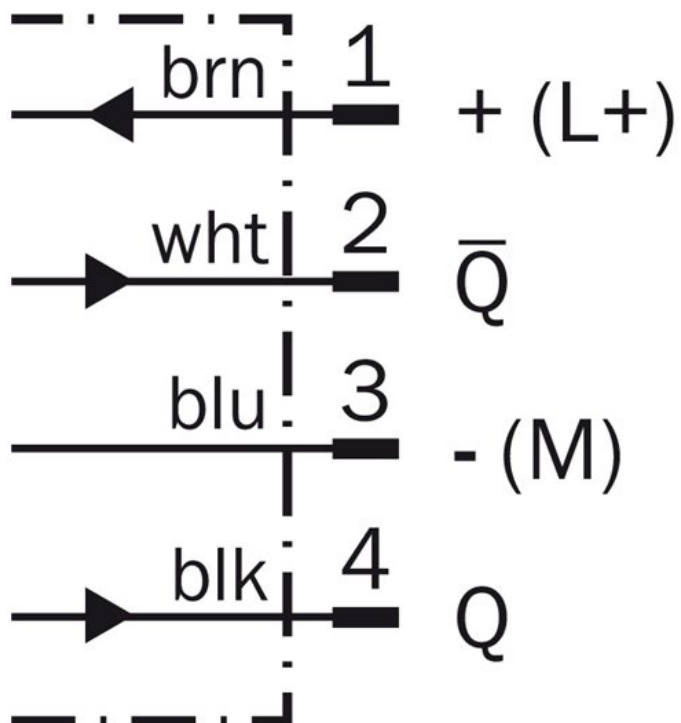
Dimensional drawing



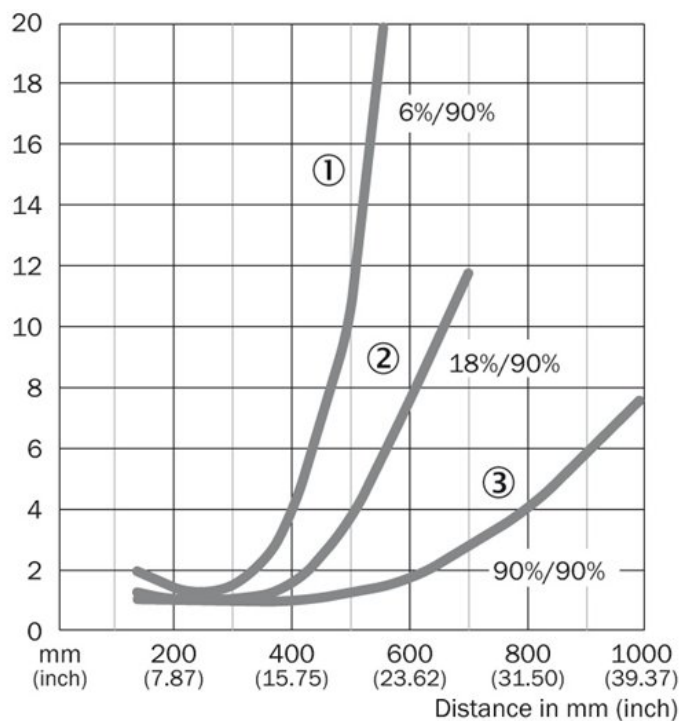
Adjustments possible



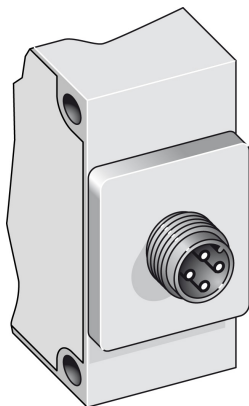
Connection diagram



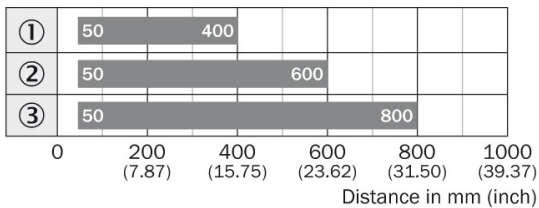
Characteristic curve



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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