



Fotoprzełączniki W2 Flat, Fotoprzełącznik odbiciowy, energetyczny

WT2F-P140



Nazwa modelu > **WT2F-P140**

Numer części > **6030584**



Produkt może różnić się od ilustracji

At a glance

- V-optic sensor with fixed sensing ranges of 9 mm or 18 mm for detecting transparent and glossy objects
- Energetic proximity sensor with fixed sensing ranges of 34 or 115 mm
- Rugged housing with metal sleeves for 2 mm fixing screws included with delivery
- 0.5 ms response time
- IP 67 enclosure rating
- Red light

Your benefits

- Variants with V-optics reliably detect transparent and glossy objects, resulting in a low-cost application solution - even for demanding applications
- Smart, optimal design fits into small spaces, providing increased application flexibility
- Sensors with four fixed sensing ranges provides a wide range of application options
- Quick and easy installation since sensors can be mounted directly to the machine



Cechy

Wymiary (Szer. x Wys. x Głęb.):	14 mm x 19,5 mm x 3,5 mm
Maks. strefa działania:	2 mm ... 18 mm
Sensing range:	2 mm ... 18 mm
Housing desig (light emission):	Prostopadłościenna, Flat
Nadajnik światła:	LED ¹⁾
Rodzaj światła:	widzialne światło czerwone
Długość fali:	660 nm
Zasada działania czujnika/Sposób detekcji:	Fotoprzeźnik odbiciowy, energetyczny

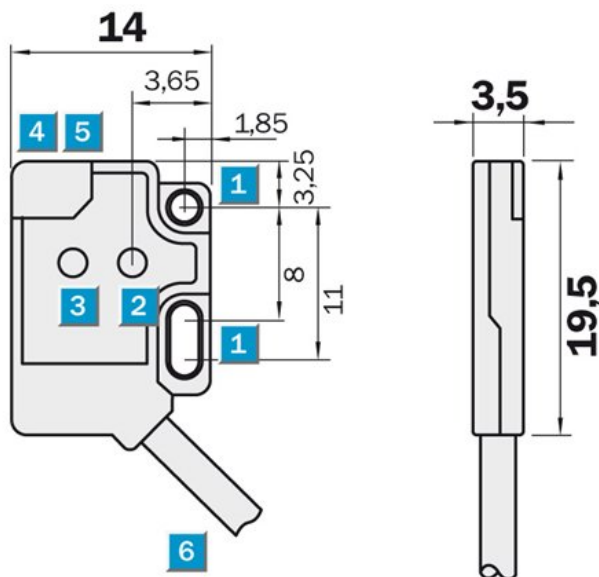
¹⁾ Average service life of 100,000 h at T_A = +25 °C

Mechanika/elektronika

Rodzaj zabezpieczenia:	IP 67
Napięcie zasilania:	12 V DC ... 24 V DC ¹⁾
Tętnienia resztkowe:	$\leq 5 \text{ Vss}$ ²⁾
Wyjście przełączające:	PNP, light switching
Output current I _{max} :	50
Czas reakcji:	$\leq 0,5 \text{ ms}$ ³⁾
Switching frequency:	1.000 ⁴⁾
Sposób przyłączenia:	Cable, 3-wire, 2 m ⁵⁾
Cable material:	PVC
Cable diameter:	2,4 mm
Układ zabezpieczenia:::	A C D ^{6) 7) 8)}
Ciężar:	20 g
Tworzywo, obudowa:	PC
Tworzywo, układ optyczny:	PC
Ambient temperature, operation:	-20 °C ... 55 °C
Ambient temperature, storage:	-40 °C ... 75 °C
Filtr polaryzacyjny:	-
Napięcie sygnału NPN HIGH/LOW:	ca. $U_v / < 1,8 \text{ V}$
Ognisko nastawne:	-
Napięcie sygnału PNP HIGH/LOW:	approx. $V_S - 1.8 \text{ V} / 0 \text{ V}$
Zabezpieczenie przed zmianą biegunowości:	✓
Zabezpieczenie przed zwarciami:	✓

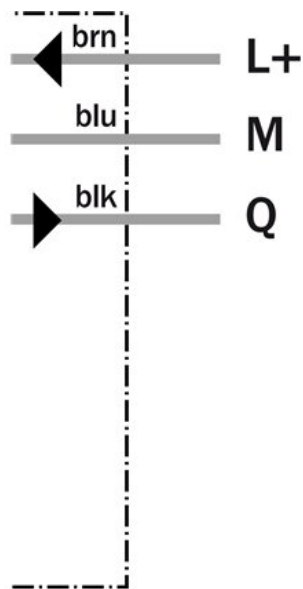
¹⁾ +/- 10 % ²⁾ May not exceed or fall short of V_S ³⁾ Signal transit time with resistive load ⁴⁾ With light/dark ratio 1:1 ⁵⁾ Do not bend below 0 °C ⁶⁾ A = V_S connections
reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ D = outputs overcurrent and short-circuit protected

Dimensional drawing

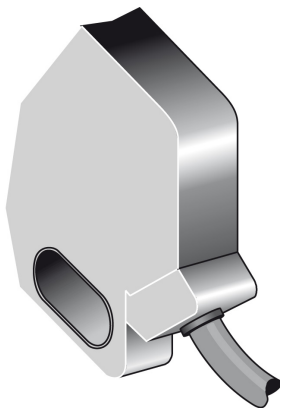


- [1] Mounting holes, $\varnothing 2.1 \text{ mm}$
- [2] Optical axis, sender
- [3] Optical axis, receiver
- [4] LED indicator orange: switching output active
- [5] LED indicator green: strength indicator
- [6] Connection

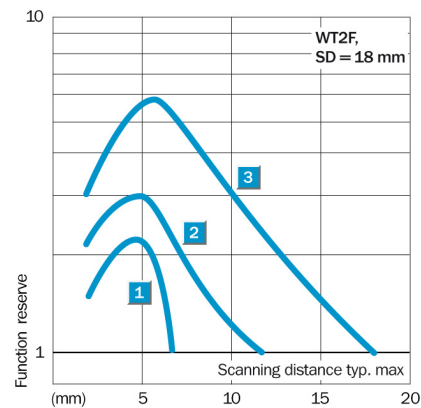
Connection diagram



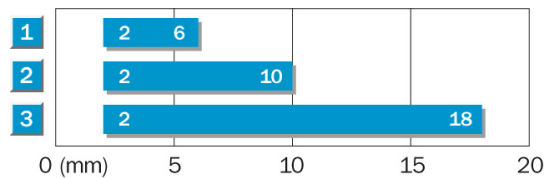
Connection type



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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