



Fotoprzełączniki V18, Fotoprzełącznik odbiciowy, Eliminacja wpływu tła

VTF18-3F5140



Nazwa modelu > **VTF18-3F5140**

Numer części > **6012954**



At a glance

- Cylindrical M18 housing
- Sensing distance up to 50 mm or 100 mm
- Precise background blanking
- 3- or 4-wire
- Straight or right-angle housing
- Metal or plastic housing

Your benefits

- Simple, standardized design ensures easy mounting, alignment and replacement
- Compact, space-saving design easily fits in tight application spaces



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, Eliminacja wpływu tła
Housing design (light emission):	Cylindrical, straight, straight
Długość obudowy:	78 mm
Thread diameter (housing):	M18 x 1
Oś optyczna:	Osiowa
Maks. strefa działania:	0 mm ... 50 mm ¹⁾
Strefa działania:	0 mm ... 45 mm
Rodzaj światła:	Światło podczerwone
Nadajnik światła:	LED ²⁾
Light spot (distance):	3 mm (25 mm)

¹⁾ Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) ²⁾ Average service life 100,000 h at Ta = +25 °C

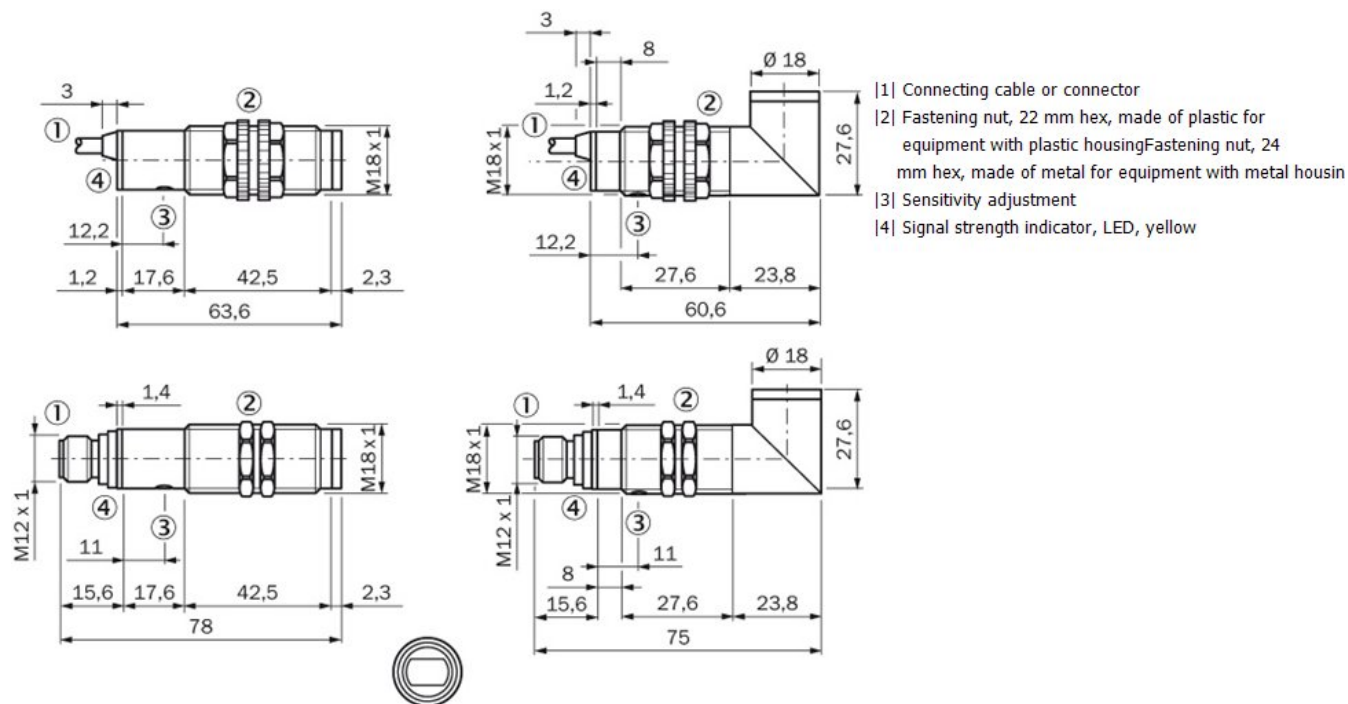
Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	≤ 10 % ²⁾
Pobór prądu:	≤ 30 mA ³⁾
Wyjście przełączające:	PNP, Light-switching, open collector
Output current I _{max} :	100 mA
Czas reakcji:	≤ 2 ms ⁴⁾
Switching frequency:	250 Hz ⁵⁾
Typ połączenia:	Wtyk M12, 4-pin
Układ zabezpieczenia::::	A, B, C, D ⁶⁾ ⁷⁾ ⁸⁾ ⁹⁾
Klasa ochronności:	III

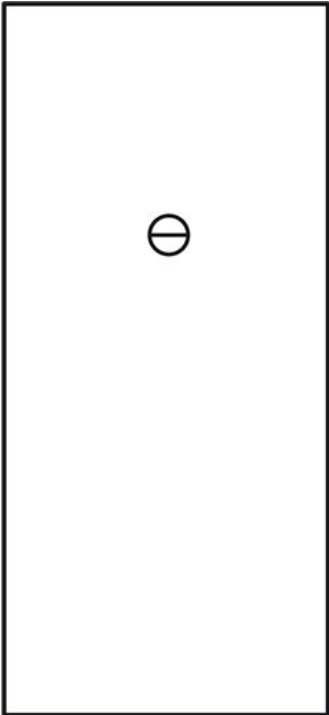
Ciężar:	120 g
Tworzywo, obudowa:	Mosiądz niklowany
Tworzywo, układ optyczny:	PMMA
Rodzaj zabezpieczenia:	IP 67
Emitancja:	Focused optics
Ambient operating temperature:	-25 °C ... 70 °C
UL File-No.:	UL No. NMFT2.E175606

1) Limit values 2) May not exceed or fall short of V_S 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) B = inputs and output reverse-polarity protected 8) C = interference suppression 9) D = outputs overcurrent and short-circuit protected

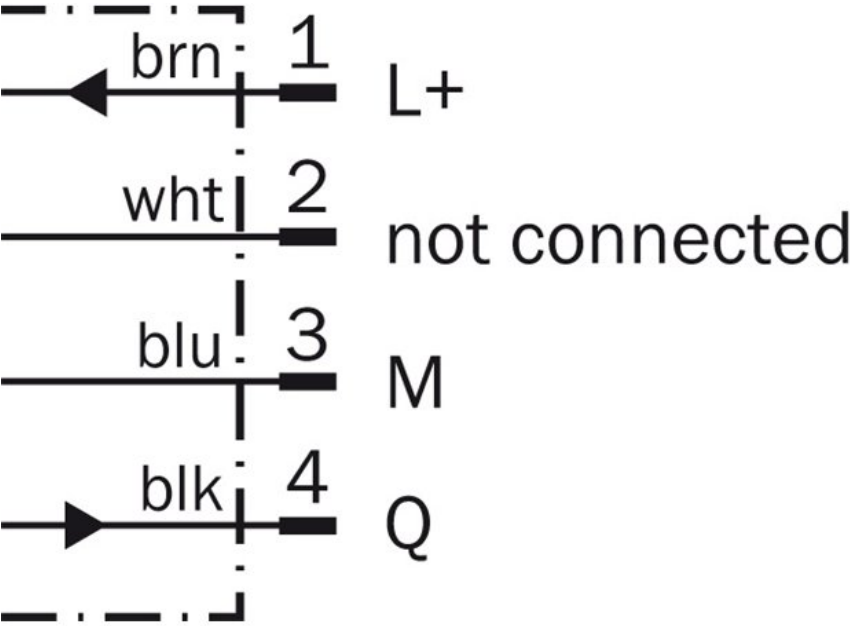
Dimensional drawing



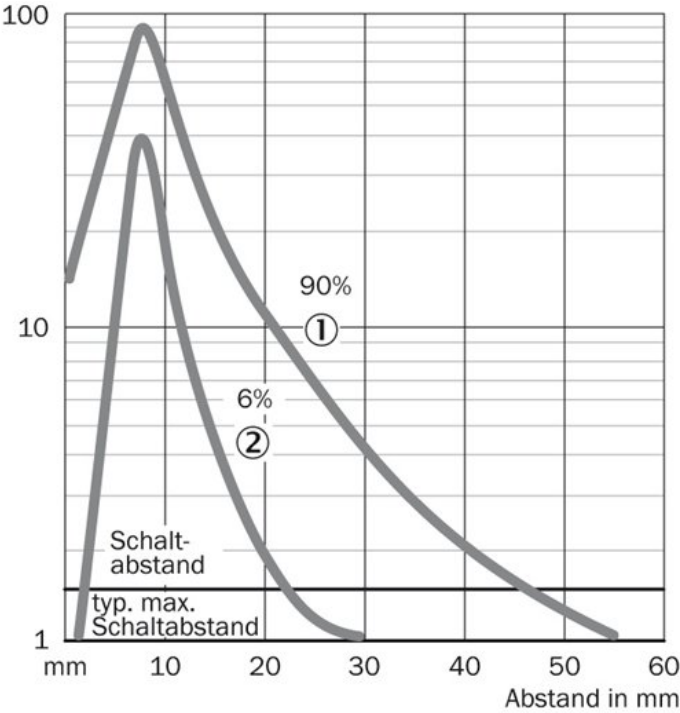
Adjustments possible



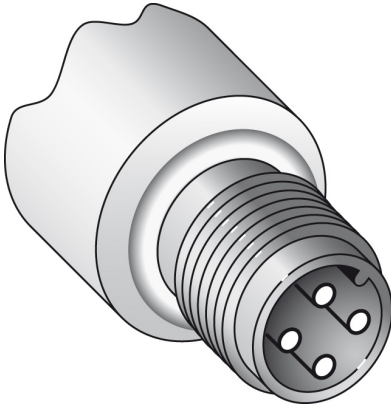
Connection diagram



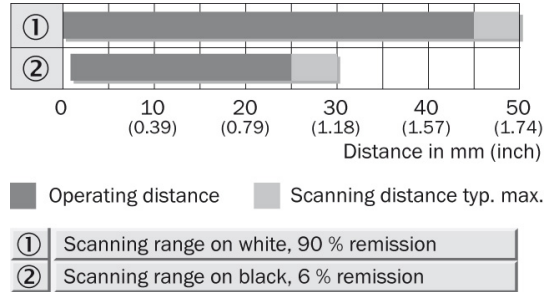
Characteristic curve



Connection type



Sensing range diagram



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