



Fotoprzełączniki V18, Fotoprzełącznik odbiciowy, Eliminacja wpływu tła

VTF18-4P1240



SICK
Sensor Intelligence.

Nazwa modelu > **VTF18-4P1240**

Numer części > **6012831**



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:	3 mm ... 100 mm ¹⁾
Strefa działania:	3 mm ... 90 mm
Rodzaj światła:	Światło podczerwone
Nadajnik światła:	LED ²⁾
Light spot (distance):	3 mm (50 mm)
Nastawienie czułości:	Potentiometer, 270°

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, przełączanie jasno/ciemno, wybierane, Selectable via L/D control wire, open collector ⁴⁾
Output current I _{max} ..:	100 mA
Czas reakcji:	≤ 2 ms ⁵⁾
Switching frequency:	250 Hz ⁶⁾
Typ połączenia:	Wtyk M12, 4-pin

Układ zabezpieczenia:::

Klasa ochrony:

Ciężar:

Tworzywo, obudowa:

Tworzywo, układ optyczny:

Rodzaj zabezpieczenia:

Emitancja:

Ambient operating temperature:

UL File-No.:

A, B, C, D^{7) 8) 9) 10)}

III

120 g

Mosiądz niklowany

PMMA

IP 67

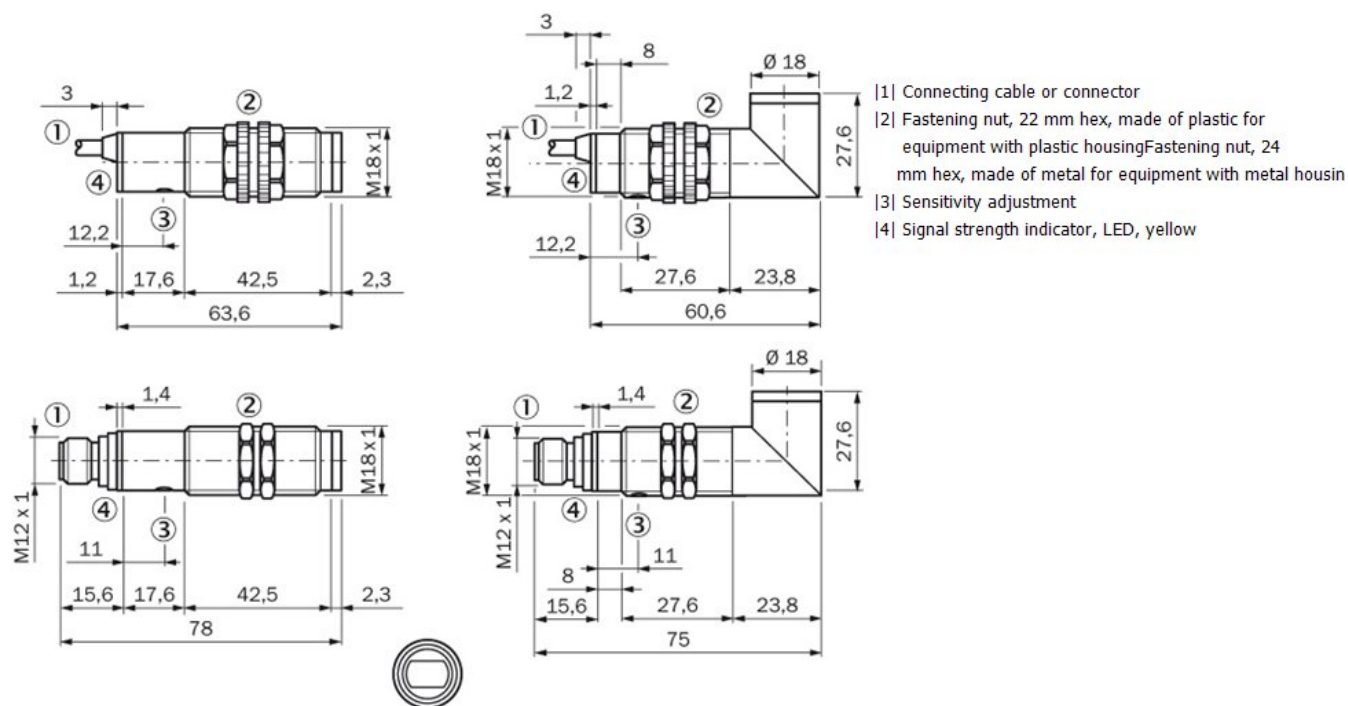
Focused optics

-25 °C ... 70 °C

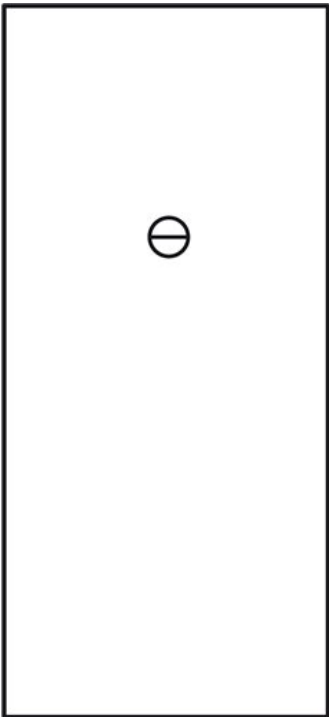
UL No. NMFT2.E175606

- 1) Limit values 2) May not exceed or fall short of V_S 3) Bez obciążenia 4) Control wire open: dark-switching D.ON 5) Signal transit time with resistive load 6) With light/dark ratio 1:1 7) $A = V_S$ connections reverse-polarity protected 8) B = inputs and output reverse-polarity protected 9) C = interference suppression 10) D = outputs overcurrent and short-circuit protected

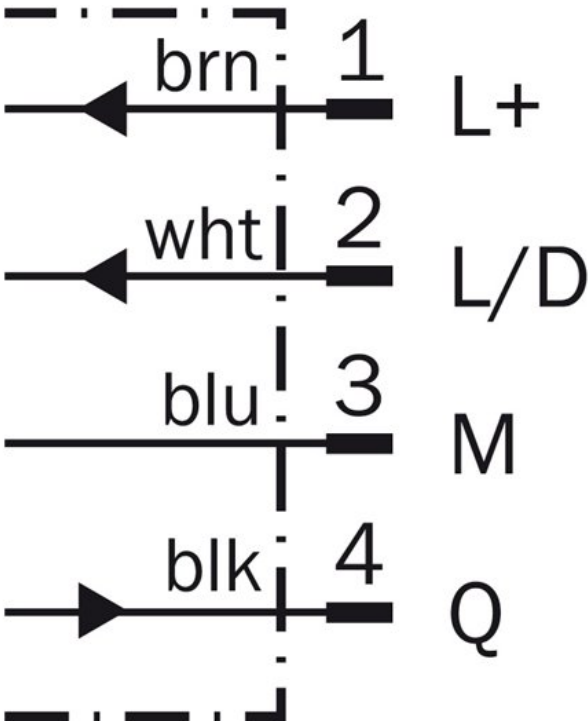
Dimensional drawing



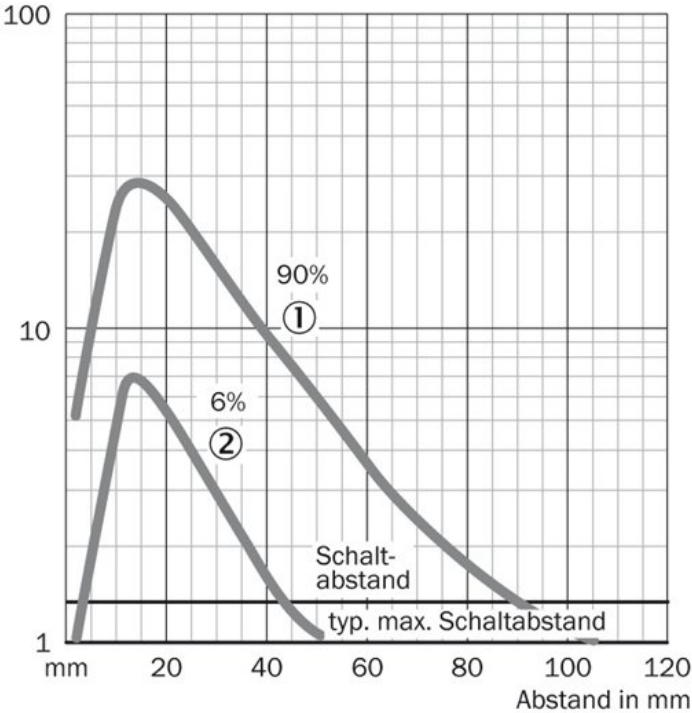
Adjustments possible



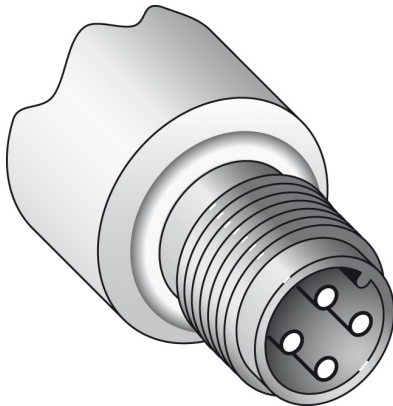
Connection diagram



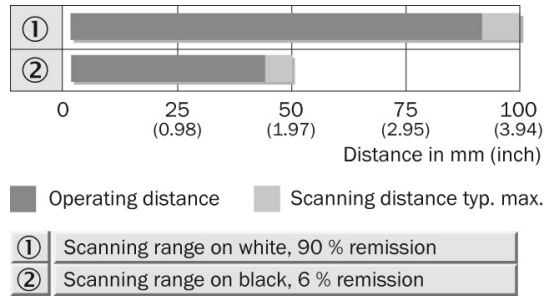
Characteristic curve



Connection type



Sensing range diagram



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