



Fotoprzełączniki V180-2, Fotoprzełącznik odbiciowy, energetyczny

VTE180-2F32489



Nazwa modelu > **VTE180-2F32489**

Numer części > **6044029**



Produkt może różnić się od ilustracji

At a glance

- Lowest-cost M18 housing sensor on the market
- Long sensing distances: 100 mm, 400 mm, 800 mm (max. 1,100 mm)
- Bright power and signal LEDs with 360° visibility
- Wide product portfolio solves a broad range of applications
- High switching frequencies up to 1000 Hz
- Available in a metal housing for applications in harsh environments
- Optical axis selectively axial or radial (90°)

Your benefits

- Lowest-cost M18 cylindrical sensor on the market reduces installation costs
- Bright red sender LED simplifies alignment and saves installation time
- Bright power and signal LEDs with 360° visibility offer quick and simple troubleshooting, reducing installation and maintenance costs
- The flat and smooth lens reduces the collection of dust and dirt, ensuring safe operation with less maintenance and fewer costs



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, energetyczny
Housing design (light emission):	Cylindrical, angled
Długość obudowy:	83,8 mm
Oś optyczna:	kątowe
Maks. strefa działania:	1 mm ... 900 mm ¹⁾
Strefa działania:	1 mm ... 650 mm ²⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	LED ³⁾
Długość fali:	645 nm
Kąt promieniowania:	Ca. 1,2 °
Nastawa:	Potentiometer, 270 °
Średnica plamki świetlnej (odległość):	Ø 30 mm (800 mm)

^{1) 2)} Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) ³⁾ Average service life of 100,000 h at T_A = +25 °C

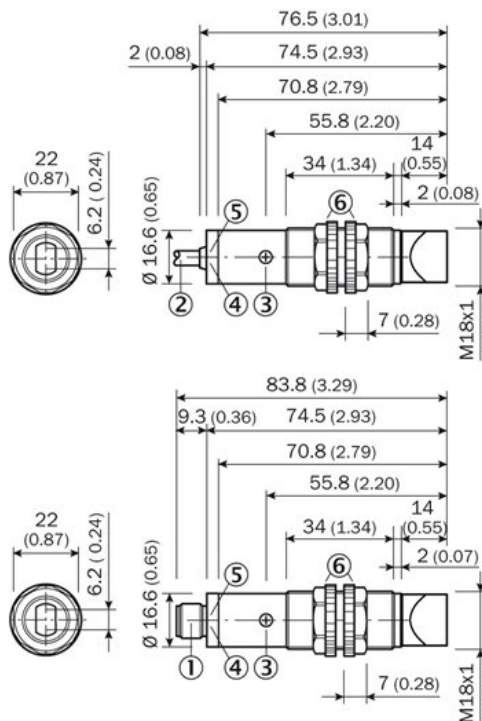
Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	± 10 % ²⁾
Pobór prądu:	≤ 30 mA ³⁾

Wyjście przełączające:	PNP
Switching output:	Przełączanie na jasnym
Output current I _{max} :	≤ 100 mA
Czas reakcji:	≤ 0,5 ms ⁴⁾
Switching frequency:	1.000 Hz ⁵⁾
Typ połączenia:	Connector M12, 3-pin
Układ zabezpieczenia:::	A, B, D ⁶⁾ 7) 8)
Klasa ochronności:	III
Ciężar:	18 g
Tworzywo, obudowa:	Tworzywo sztuczne, PBT/PC
Tworzywo, układ optyczny:	PMMA
Rodzaj zabezpieczenia:	IP 67
Ambient operating temperature:	-25 °C ... +55 °C
Ambient storage temperature:	-40 °C ... +70 °C
Napięcie sygnału PNP HIGH/LOW:	U _v - 1,8 V/ca. 0 V

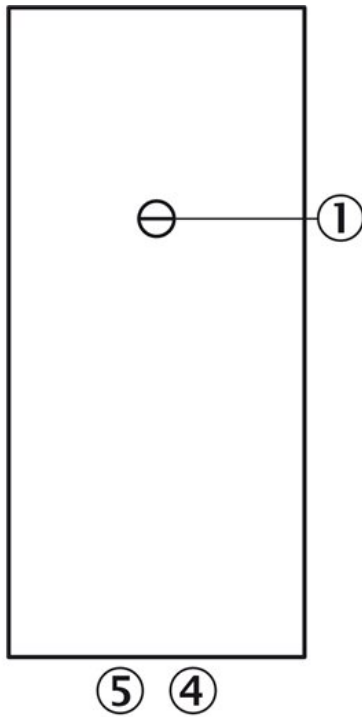
1) Limit values, operation in short-circuit protected network max. 8 A 2) May not exceed or fall short of V_S tolerances 3) Bez obciążenia 4) Signal transit time with resistive load 5) With light/dark ratio 1:1 6) A = V_S connections reverse-polarity protected 7) B = inputs and output reverse-polarity protected 8) D = outputs overcurrent and short-circuit protected

Rysunek techniczny



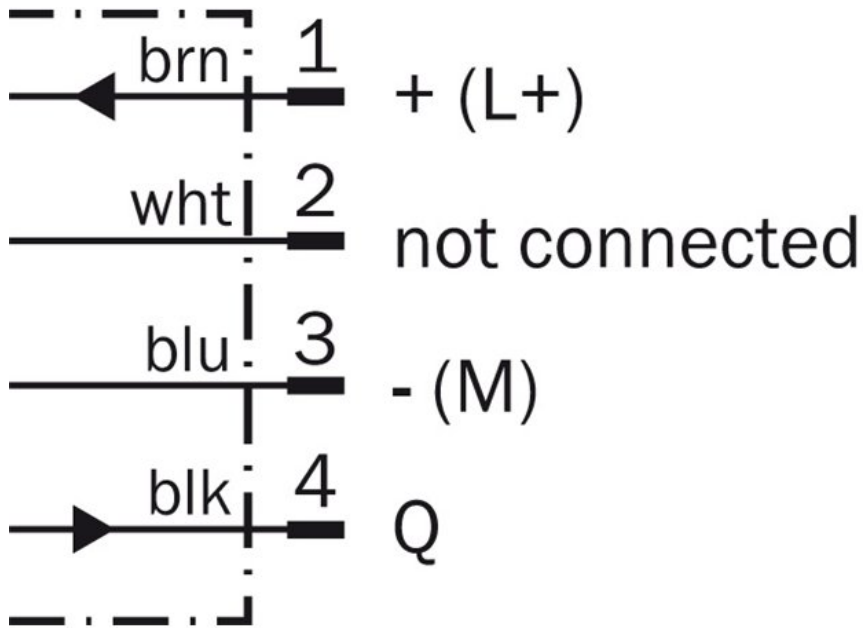
- [1] Connector M12
- [2] Connection cable 2 m
- [3] Sensitivity control; Potentiometer 270°
- [4] LED indicator orange: switching output active
- [5] LED indicator green, stability indicator:
LED lights continuously = light reception < 0.9 / > 1.1; LED off = light reception > 0.9 / < 1.1
- [6] fastening nuts (2 x); width across 22, PC

Adjustments possible

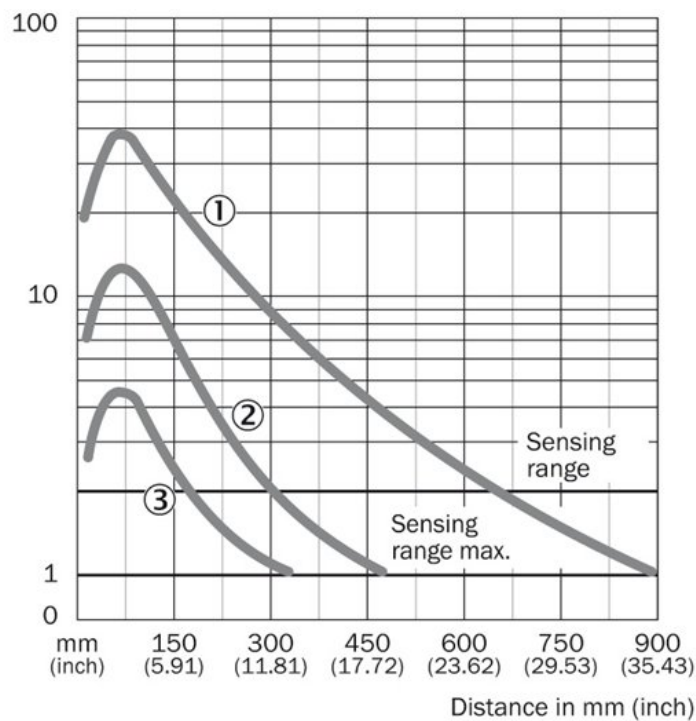


- |3| Sensitivity adjustment 270°
- |4| LED indicator orange: switching output active
- |5| LED indicator green

Connection diagram

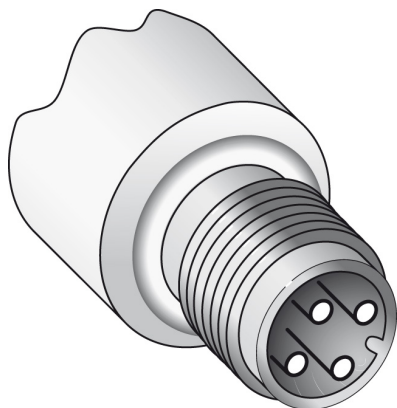


Characteristic curve

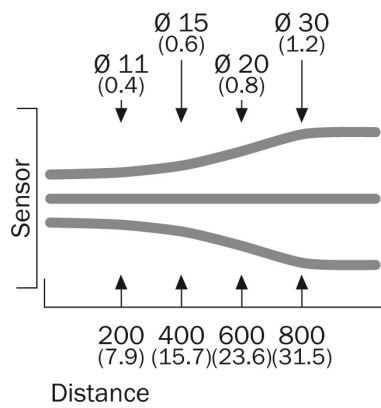


- |1| Sensing range on white, 90 % remission
- |2| Sensing range on grey, 18 % remission
- |3| Sensing range on black, 6 % remission

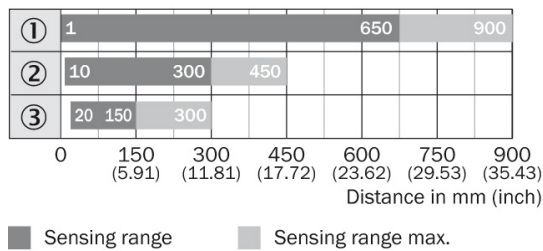
Connection type



Light spot size



Sensing range diagram



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