



Fotoprzełączniki V180-2, Fotoprzełącznik refleksyjny, Standard optics

VL180-2P32438



Nazwa modelu > **VL180-2P32438**

Numer części > **6044033**



Produkt może różnić się od ilustracji

At a glance

- Lowest-cost M18 housing sensor on the market
- Sensing distance up to 7 m
- Polarizing filter ensures reliable detection of highly-reflective objects
- Bright power and signal LEDs with 360° visibility
- Includes reflector
- 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 maintenance time and costs
- The flat and smooth lens reduces the collection of dust and dirt, ensuring safe operation with less maintenance and fewer costs
- Polarizing filter prevents false readings on reflective surfaces, reducing downtime



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik refleksyjny, Standard optics
Housing design (light emission):	Cylindrical, angled
Długość obudowy:	84,2 mm
Oś optyczna:	kątowe
Maks. strefa działania:	0,05 m ... 5,5 m ¹⁾
Strefa działania:	0,05 m ... 4,5 m ²⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	LED ³⁾
Długość fali:	645 nm
Kąt promieniowania:	Ca. 4,5 °
Nastawa:	Potentiometer, 270 °
Średnica plamki świetlnej (odległość):	Ø 270 mm (4 m)

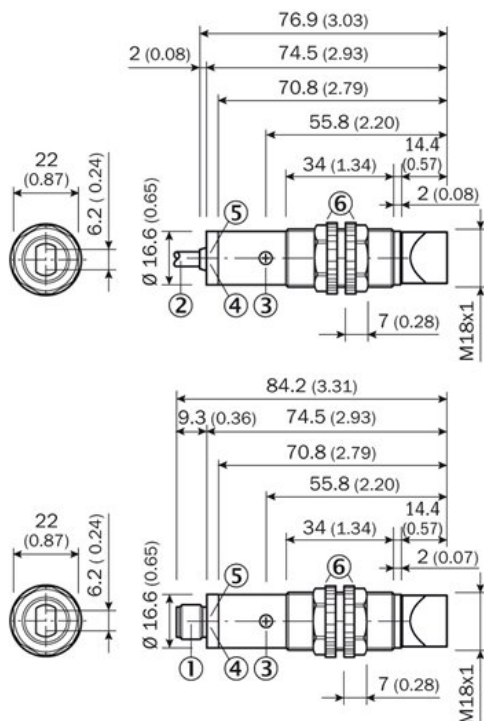
^{1) 2)} PL80A ³⁾ Average service life of 100,000 h at T_A = +25 °C

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:	Dark switching
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
Filtr polaryzacyjny:	✓
Tworzywo, obudowa:	Tworzywo sztuczne, PBT/PC
Tworzywo, układ optyczny:	PMMA
Rodzaj zabezpieczenia:	IP 67
Dostawa:	Reflector P250
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

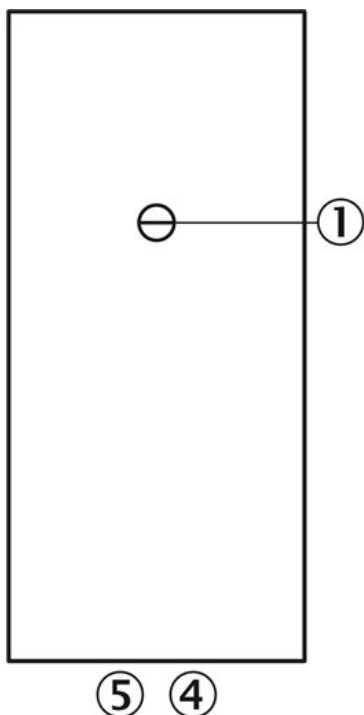
¹⁾ Limit values, operation in short-circuit protected network max. 8 A ²⁾ May not exceed or fall short of V_S tolerances ³⁾ Bez obciążenia ⁴⁾ Signal transit time with resistive load ⁵⁾ With light/dark ratio 1:1 ⁶⁾ A = V_S connections reverse-polarity protected ⁷⁾ B = inputs and output reverse-polarity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

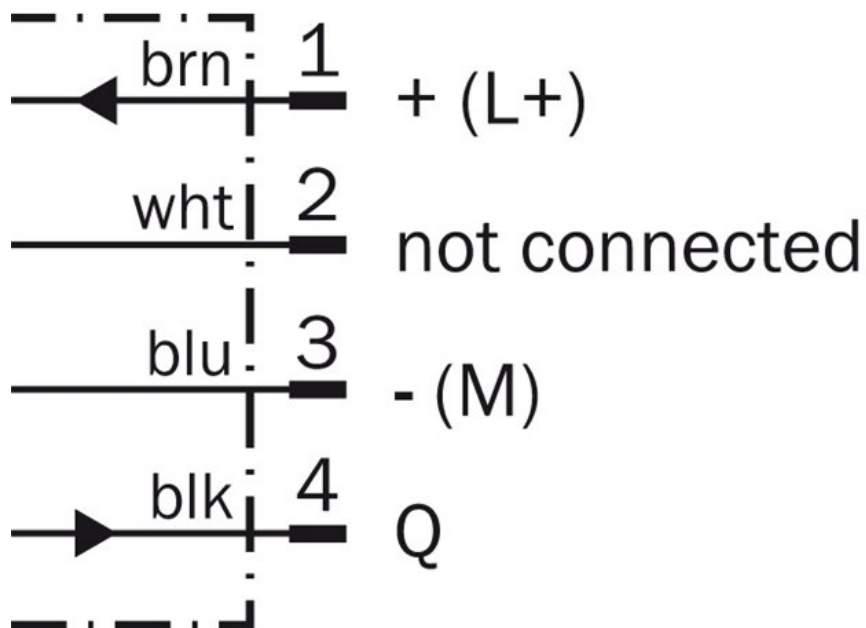


|3| Sensitivity adjustment 270°

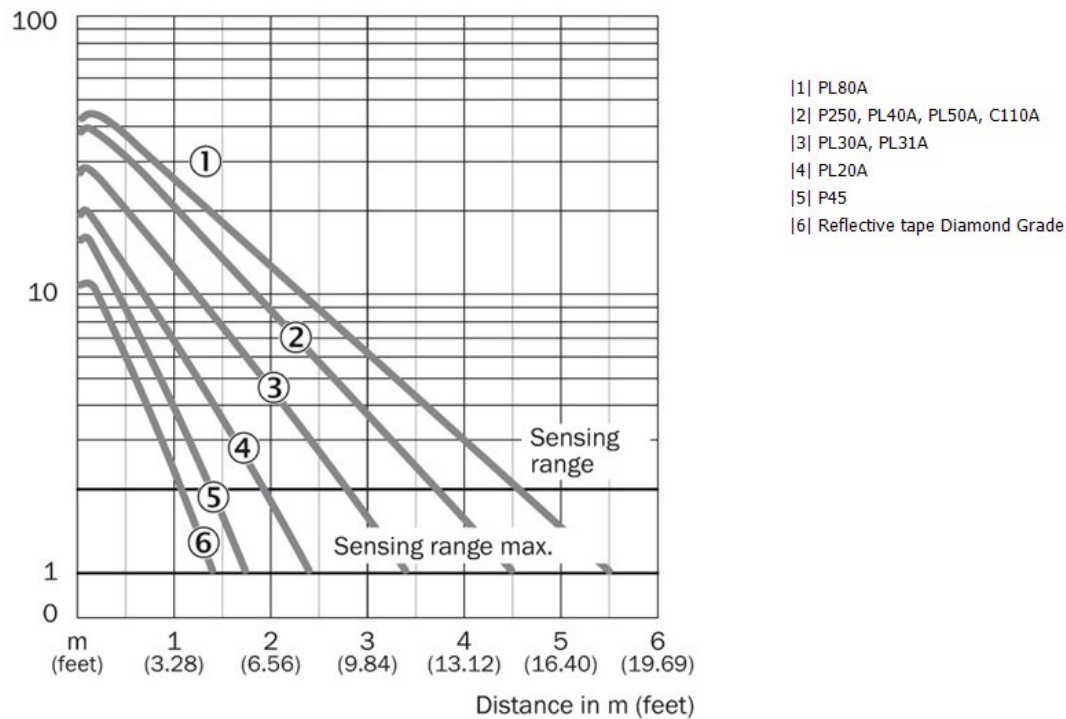
|4| LED indicator orange: switching output active

|5| LED indicator green

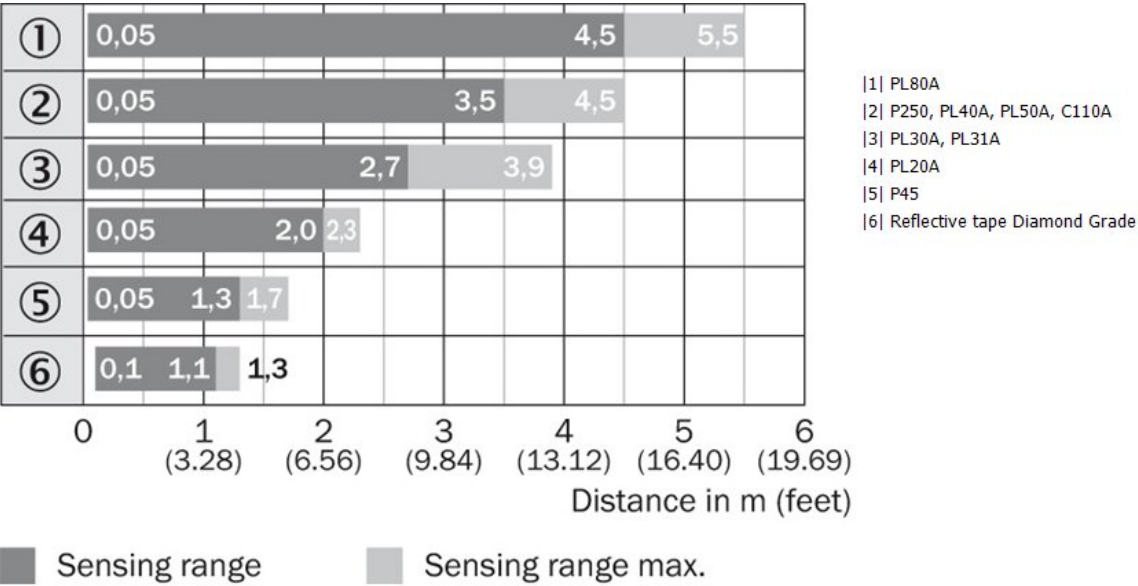
Connection diagram



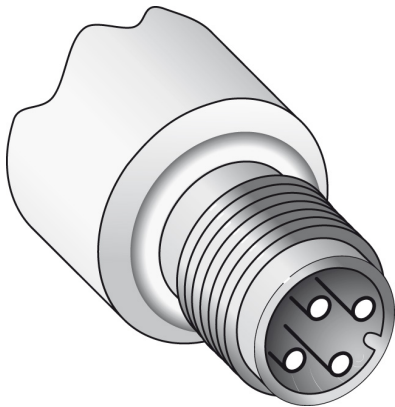
Characteristic curve



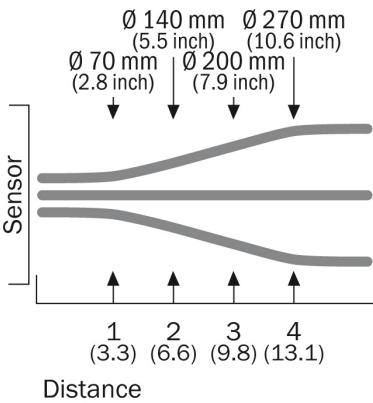
Sensing range diagram



Connection type



Light spot size



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