



Fotoprzełączniki V18V, Fotoprzełącznik refleksyjny, Standard optics

VL18-4P2240V



Nazwa modelu > **VL18-4P2240V**

Numer części > **6035497**



Produkt może różnić się od ilustracji

At a glance

- IP 69K-rated cylindrical retro-reflective photoelectric sensor in M18 stainless steel housing with 5 m sensing distance
- Available for clear material detection up to 4.5 m
- Extended temperature range: +85° C (long-term), +100°C / 15 min. (short-term)
- Touch teach-in adjustment
- All sensor materials, including the housing, LED and lens are resistant to chemicals
- IP 69K and IP 68 according to DIN 40050
- Laser-etched part numbers
- Ecolab & JohnsonDiversey certified for chemical resistance
- Resistant to all common cleaning agents and certified by independent institutes

Your benefits

- Simple, time-saving design ensures easy mounting, alignment and replacement
- IP 69K-rated stainless steel housing has a long service life that withstands hygienic and wash down environments, reducing maintenance time and costs
- Unique touch-teach feature and lock/ unlock functionality allow users to control who can change the sensor setting, which reduces the chances of disturbing a proven process and saves commissioning and maintenance time
- Laser-etched part numbers ensure the part numbers will not be washed off, saving maintenance time
- Polarizing filter prevents false readings on reflective objects, reducing downtime



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik refleksyjny, Standard optics
Housing design (light emission):	Cylindrical, straight
Długość obudowy:	83 mm
Thread diameter (housing):	M18 x 1
Oś optyczna:	Osiowa
Maks. strefa działania:	0,035 m ... 4,5 m ¹⁾
Strefa działania:	0,035 m ... 4 m ²⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	LED ³⁾
Kąt promieniowania:	3 °
Średnica plamki świetlnej (odległość):	Ø 60 mm (1 m)

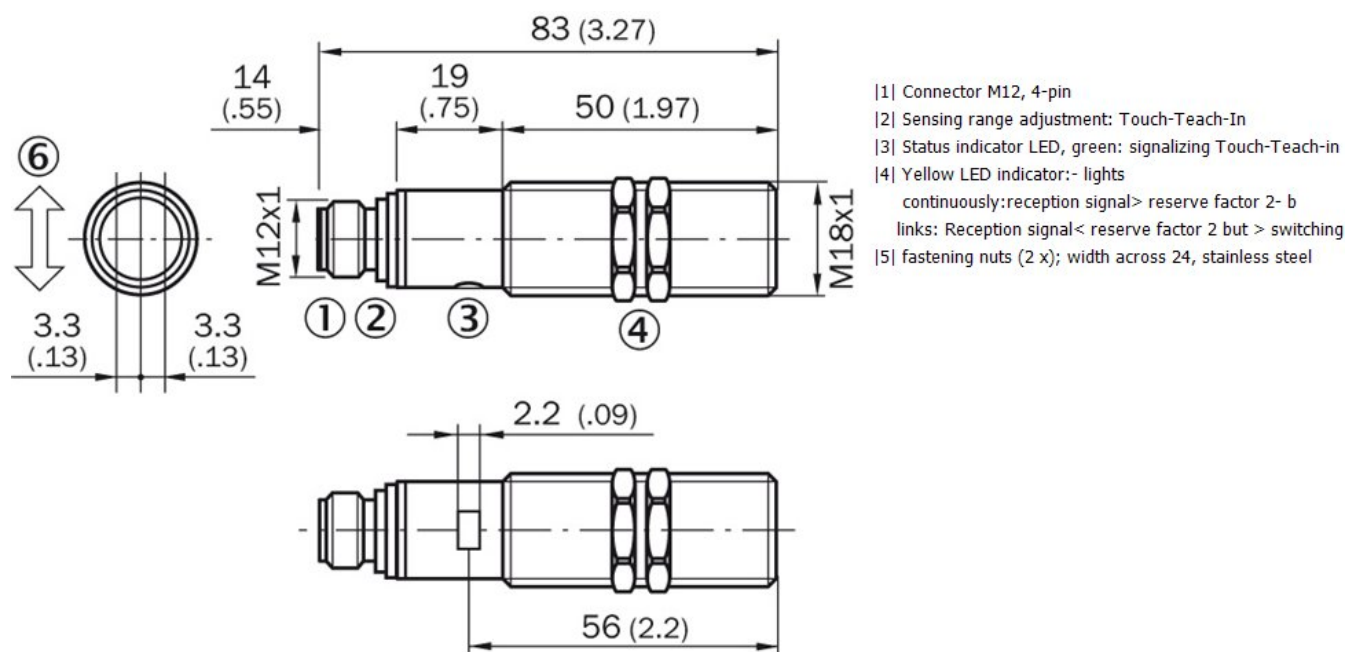
1) 2) PL80A ³⁾ Average service life of 100,000 h at T_A = +25 °C

Mechanika/elektronika

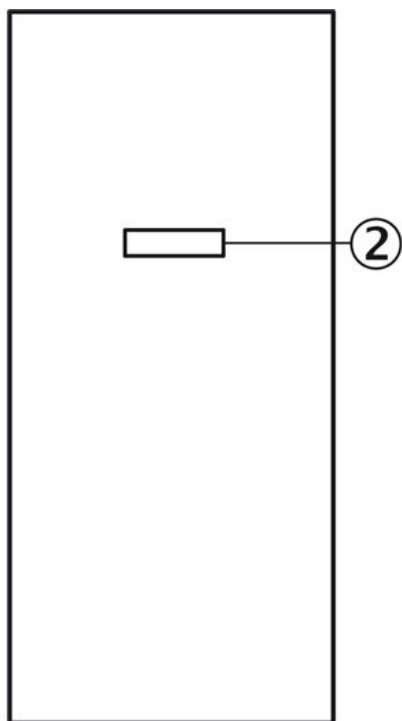
Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	≤ 10 % ²⁾
Pobór prądu:	≤ 35 mA ³⁾
Wyjście przełączające:	PNP, open collector
Switching output:	Przełączanie jasno/ciemno, wybierane
Switching mode selector:	Selectable via L/D control wire
Output current I _{max} :	≤ 100 mA
Czas reakcji:	≤ 1 ms ⁴⁾
Switching frequency:	500 Hz ⁵⁾
Tłumienie w drodze optycznej światła:	≥ 20 %
Różnica tłumienia w drodze optycznej światła:	≥ 15 %
Różnica tłumienia obiektu:	≥ 7,5 %
Typ połączenia:	Wtyk M12, 4-pin ⁶⁾
Cable material:	PPS (Griamid)
Układ zabezpieczenia:::	A, B, C, D ⁷⁾ ⁸⁾ ⁹⁾ ¹⁰⁾
Klasa ochronności:	III
Ciężar:	120 g
Filtr polaryzacyjny:	-
Special device:	-
Tworzywo, obudowa:	Stainless steel, Stainless steel V4A (1.4404, 316L)
Tworzywo, układ optyczny:	Plan, PPS (Griamid)
Rodzaj zabezpieczenia:	IP 67 IP 68 ¹¹⁾ IP 69K
Emitancja:	Do obiektów transparentnych
Ambient operating temperature:	-25 °C ... +80 °C ¹²⁾
Ambient storage temperature:	-40 °C ... +80 °C
UL File No.:	FDA, UL No. NRKH.E181493 & cUL No. NRKH7.E181493
Napięcie sygnału PNP HIGH/LOW:	Approx. VS - 2.0 V / 0 V

¹⁾ Limit values ²⁾ May not exceed or fall short of V_S tolerances ³⁾ Without load, at VS 30 V DC ⁴⁾ Signal transit time with resistive load ⁵⁾ With light/dark ratio 1:1 ⁶⁾ With gold plated contact pins, PPS with FDA certificate ⁷⁾ A = V_S connections reverse-polarity protected ⁸⁾ B = interference suppression ⁹⁾ D = outputs overcurrent and short-circuit protected ¹⁰⁾ D = inputs and output reverse-polarity protected ¹¹⁾ With correct mounted IP 69K connector ¹²⁾ +100 °C at max 15 minutes

Rysunek techniczny

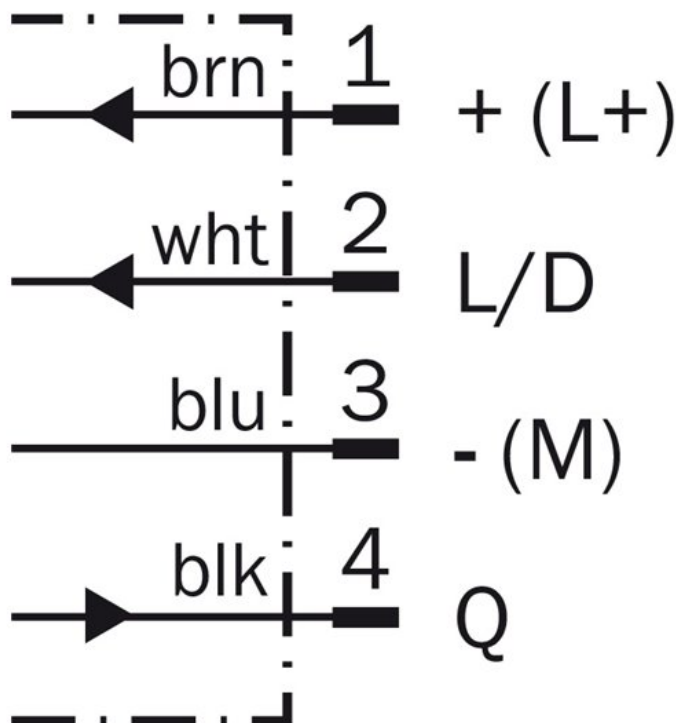


Adjustments possible

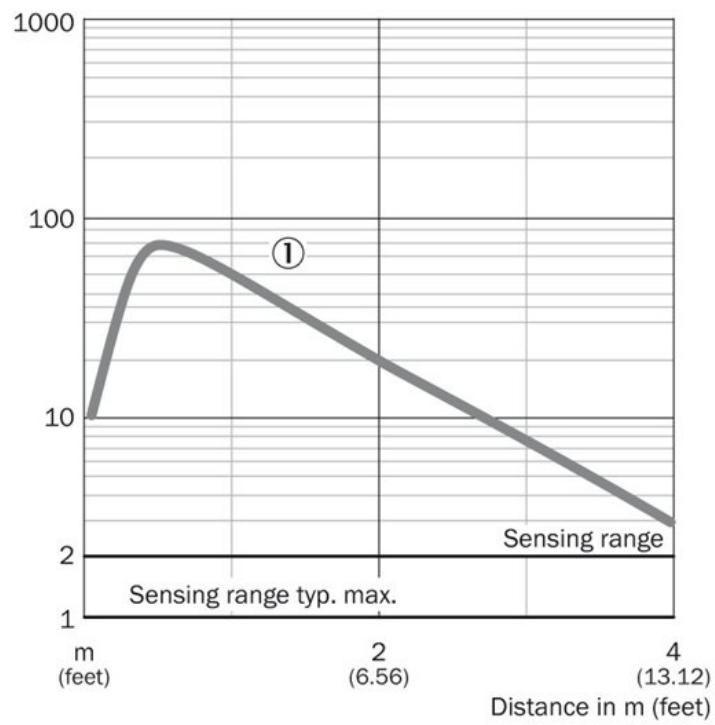


[2] Sensing range adjustment: Touch-Teach-In

Connection diagram

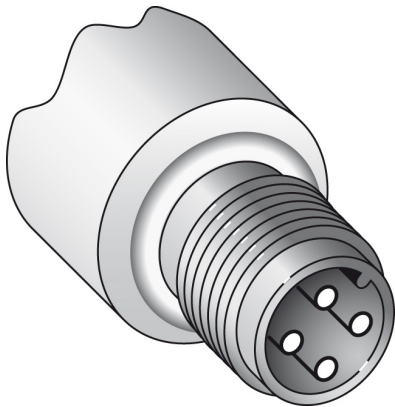


Characteristic curve

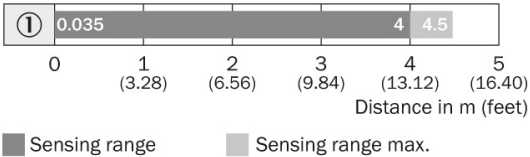


[1] PL80A

Connection type



Sensing range diagram



| 1 | PL80A

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