



Fotoprzełączniki V18V, Fotoprzełącznik refleksyjny, Standard optics

VL18-4P3140V



Nazwa modelu > **VL18-4P3140V**

Numer części > **6035495**



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, straight
Długość obudowy:	83 mm
Thread diameter (housing):	M18 x 1
Oś optyczna:	Osiowa
Maks. strefa działania:	0,1 m ... 5 m ¹⁾
Strefa działania:	0,1 m ... 4,5 m ²⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	LED ³⁾
Light spot (distance):	200 mm (4,5 m)
Długość fali:	660 nm
Kąt promieniowania:	2,5 °

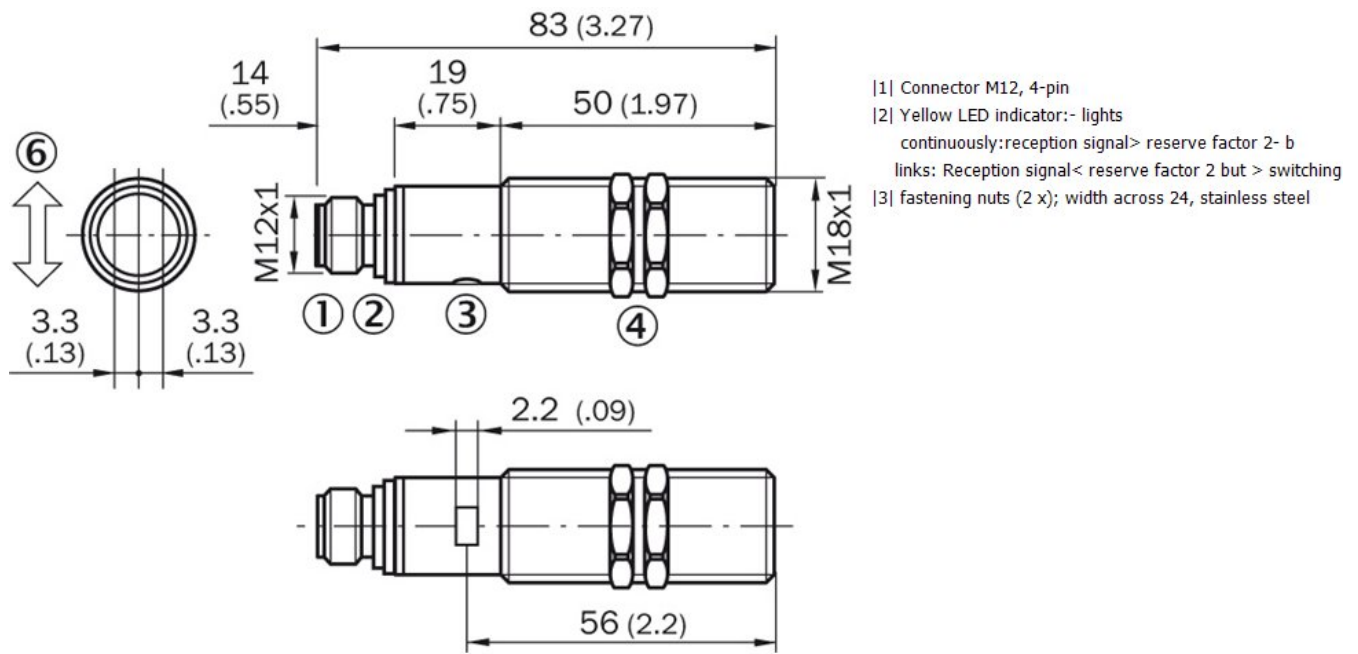
1) 2) PL80A 3) Average service life 100,000 h at Ta = +25 °C

Mechanika/elektronika

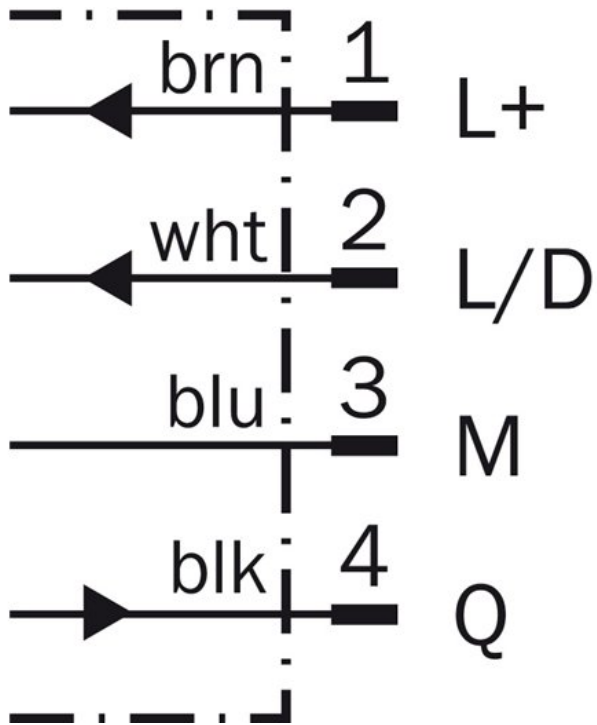
Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	≤ 10 % ²⁾
Pobór prądu:	≤ 35 mA ³⁾
Wyjście przełączające:	PNP, przełączanie jasno/ciemno, wybierane, Selectable via L/D control wire, open collector
Napięcie sygnału PNP HIGH/LOW:	Approx. VS - 2.0 V / 0 V
Output current Imax.:	≤ 100 mA
Czas reakcji:	≤ 1 ms ⁴⁾
Switching frequency:	500 Hz ⁵⁾
Typ połączenia:	Wtyk M12, 4-pin ⁶⁾
Cable material:	PPS (Griamid)
Układ zabezpieczenia:::	A, B, C, D ⁷⁾ ⁸⁾ ⁹⁾ ¹⁰⁾
Klasa ochrony:	III
Ciężar:	120 g
Filtr polaryzacyjny:	✓
Tworzywo, obudowa:	Stainless steel V4A (1.4404, 316L)
Tworzywo, układ optyczny:	Plan, PMMA, surface hardened and tempered
Rodzaj zabezpieczenia:	IP 67 IP 68 IP 69K ¹¹⁾
Ambient operating temperature:	-25 °C ... 80 °C
Ambient storage temperature:	-40 °C ... 80 °C
UL File-No.:	FDA, UL No. NRKH.E181493 & cUL No. NRKH7.E181493

1) Limit values 2) May not exceed or fall short of V_S 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) C = outputs overcurrent and short-circuit protected 10) D = inputs and output reverse-polarity protected 11) With correct mounted IP 69K connector

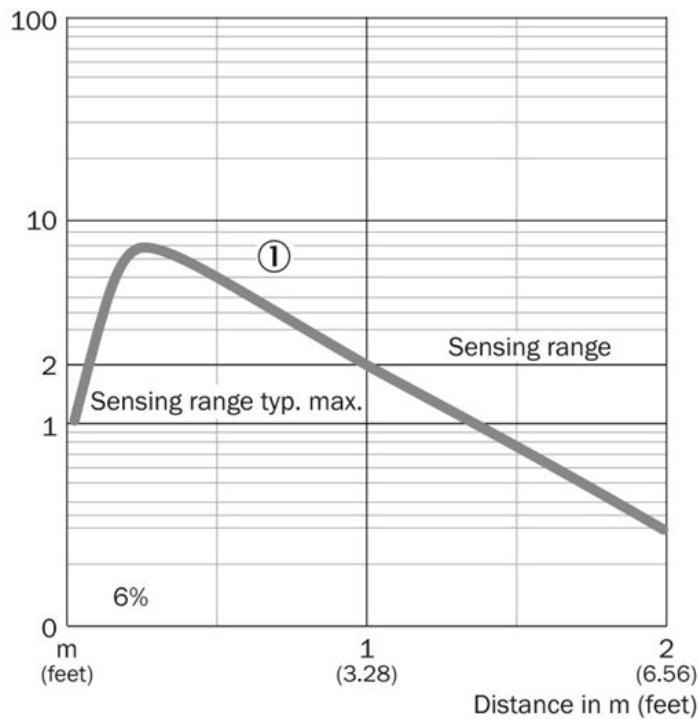
Dimensional drawing



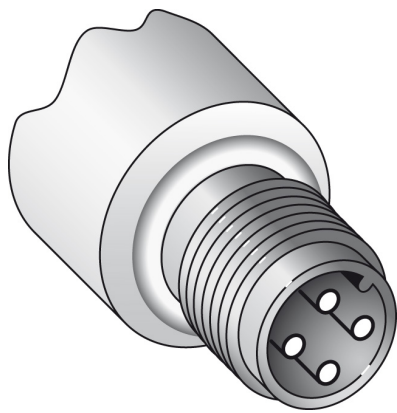
Connection diagram



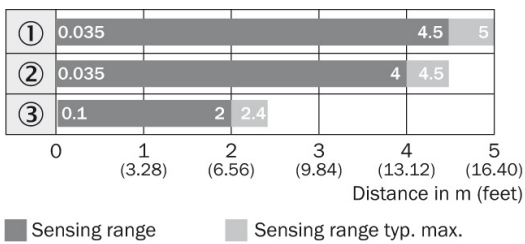
Characteristic curve



Connection type



Sensing range diagram



Reflector type

- ① PL80A
- ② C110
- ③ Reflective tape
Diamond Grade

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