



Photoelectric sensors V18, Through-beam photoelectric sensor

VS/VE18-4P3240



Model Name > [VS/VE18-4P3240](#)
Part No. > [6013695](#)



Illustration may differ

At a glance

- Cylindrical M18 housing
- Sensing distance up to 20 m
- 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



Features

Sensor/detection principle:	Through-beam photoelectric sensor
Housing design (light emission):	Cylindrical, straight, straight
Housing length:	78 mm
Thread diameter (housing):	M18 x 1
Optical axis:	Axial
Sensing range max.:	0 m ... 20 m
Sensing range:	0 m ... 14 m
Type of light:	Infrared light
Light source:	LED ¹⁾
Light spot diameter (distance):	700 mm (14 m)
Sensitivity adjustment:	Potentiometer, 270°
Angle of dispersion:	2.8 °

¹⁾ Average service life of 100,000 h at $T_A = +25\text{ °C}$

Mechanics/electronics

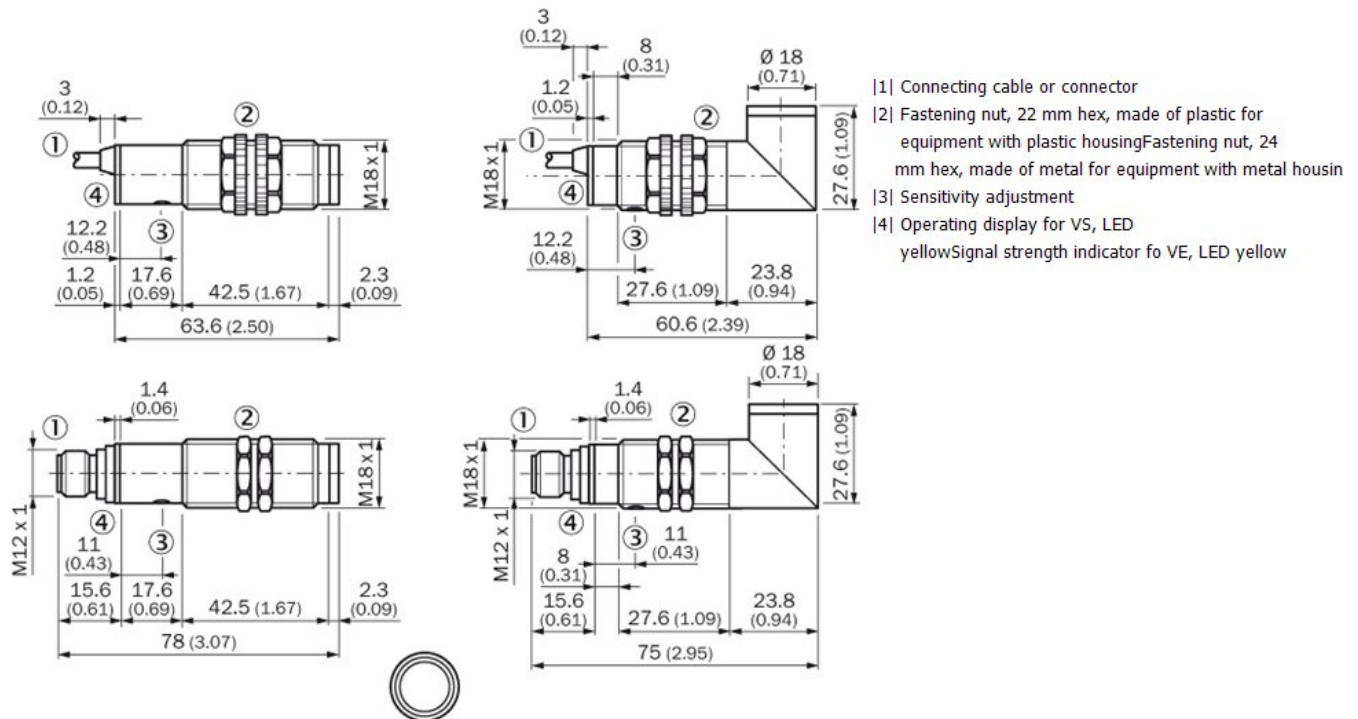
Supply voltage:	10 V DC ... 30 V DC ¹⁾
Ripple:	$\leq 10\%$ ²⁾
Power consumption:	$\leq 30\text{ mA}$ ³⁾
Output type:	PNP, Light/dark-switching, Selectable via L/D control wire, open collector
Switching mode selector:	Selectable via L/D control wire
Output current $I_{max.}$:	100 mA
Response time:	$\leq 2\text{ ms}$ ⁵⁾
Switching frequency:	250 Hz ⁶⁾

Connection type:	Connector M12, 4-pin
Circuit protection:::	A, B, C, D ^{7) 8) 9) 10)}
Protection class:	III
Weight:	240 g
Housing material:	Nickel-plated brass
Enclosure rating:	IP 67
Test input sender off:	TE to 0 V
Ambient operating temperature:	-25 °C ... 70 °C
UL File-No.:	UL No. NMFT2.E175606
Switching mode characteristic:	Open collector
SCHALTARTFUSSNOTE:	Control wire open: dark-switching D.ON

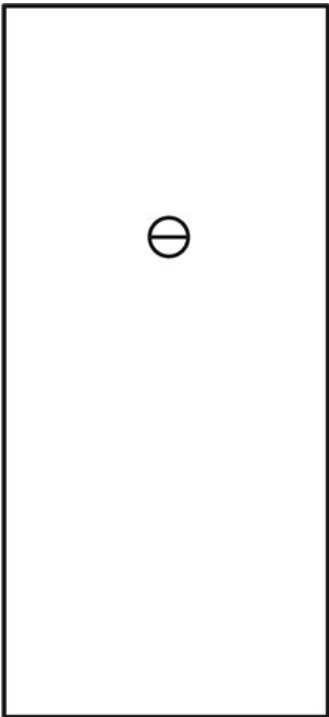
Control wire open: dark-switching D.ON;

1) Limit values 2) May not exceed or fall short of V_S tolerances 3) Without load 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

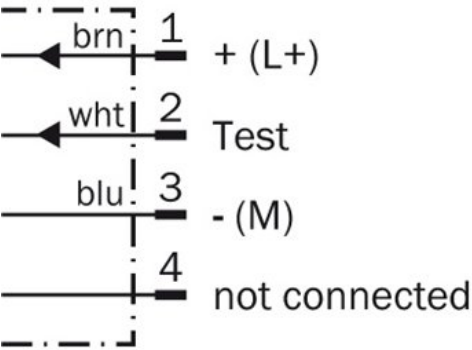


Adjustments possible

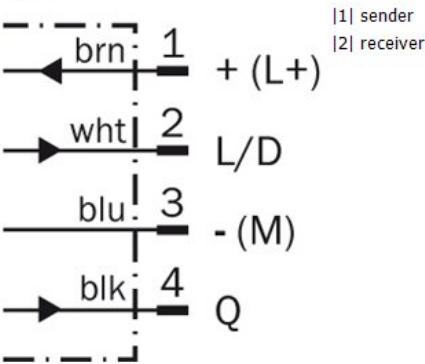


Connection diagram

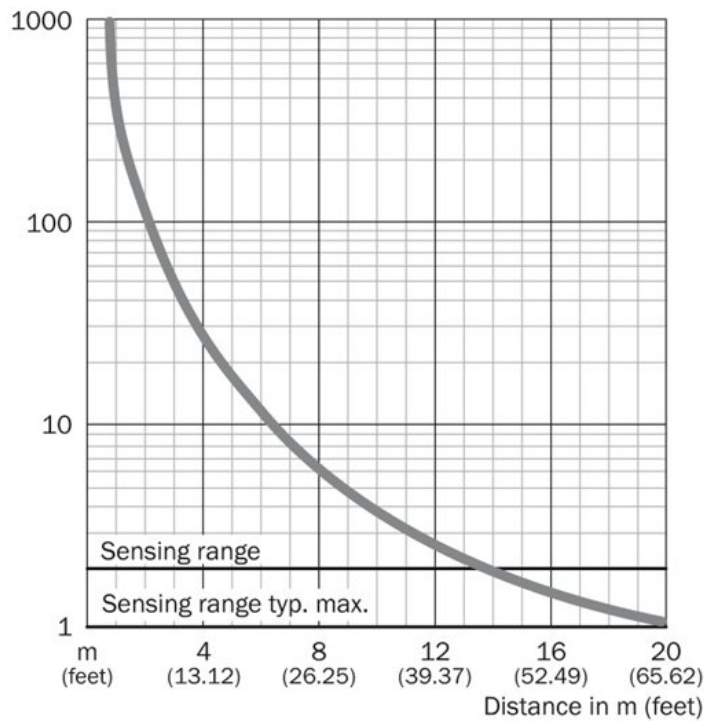
①



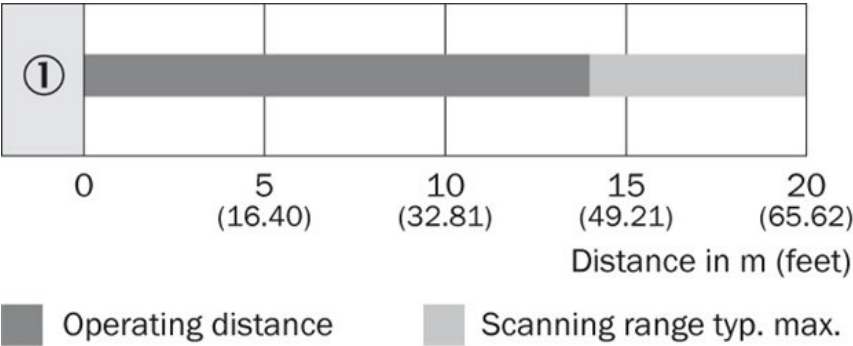
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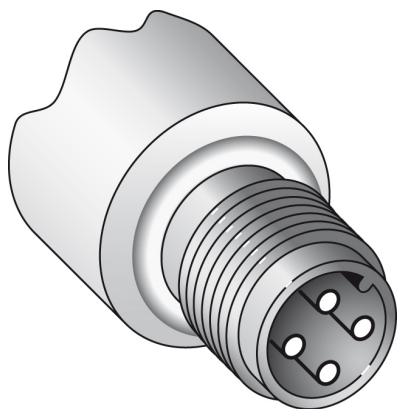
Characteristic curve



Sensing range diagram



Connection type



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