



Photoelectric sensors
V180, Through-beam photoelectric sensor

VS/VE180-P430

Model Name > [VS/VE180-P430](#)
Part No. > [6008866](#)



At a glance

- Sensing distance up to 15 m
- Compact M18 metal housing
- M12 cable or 2 m cable
- Light/dark switching via control cable
- 90° deflector head accessory

Your benefits

- Compact M18 housing saves space on the machine
- Compatible with many competitor models, making it easy to install and commission
- Clearly visible LED indicators reduce setup time and simplify troubleshooting

The product has been discontinued. Please follow the "replacement product" link for information about alternative products.



Features

Sensor/detection principle:	Through-beam photoelectric sensor
Housing design (light emission):	Cylindrical, straight
Housing length:	69 mm
Thread diameter (housing):	M18 x 1
Optical axis:	Axial
Sensing range:	0 m ... 15 m ¹⁾
Type of light:	Infrared light
Light source:	LED ²⁾
Wave length:	920 nm
Adjustment:	Potentiometer, 270°
Light spot size (distance):	800 mm (15 m)

¹⁾ The sensing range is reduced to 10 m with right-angle adapter ²⁾ Average service life of 100,000 h at T_A = +25 °C

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Ripple:	± 5 V _{pp} ²⁾
Power consumption, sender:	25 mA ²⁾
Power consumption, receiver:	25 mA ³⁾

Output type:	PNP, open collector ⁴⁾
Switching mode:	Light/dark-switching ⁵⁾
Switching mode selector:	Selectable via L/D control wire
Signal voltage PNP HIGH/LOW:	Approx. $V_S - 1.0\text{ V} / 0\text{ V}$
Output current $I_{max.}$:	$\leq 100\text{ mA}$
Response time:	$\leq 1.5\text{ ms}$ ⁶⁾
Switching frequency:	333 Hz ⁷⁾
Connection type:	Connector M12, 4-pin
Circuit protection:::	A, C, D ^{8) 9) 10)}
Protection class:	III
Weight:	130 g
Special device:	-
Housing material:	Nickel-plated brass, PBT/PC, Metal
Optics material:	PMMA
Enclosure rating:	IP 66
Items supplied:	Fastening nuts (4 x)
Ambient operating temperature:	-25 °C ... 55 °C
Ambient storage temperature:	-40 °C ... 70 °C
UL File No.:	NRNT2.E128350 & NRNT8.E128350

¹⁾ Limit values ^{2) 3)} Without load ^{4) 5)} Control wire open: dark-switching D.ON ⁶⁾ Signal transit time with resistive load ⁷⁾ With light/dark ratio 1:1 ⁸⁾ $A = V_S$
⁹⁾ C = interference suppression ¹⁰⁾ D = outputs overcurrent and short-circuit protected
connections reverse-polarity protected

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