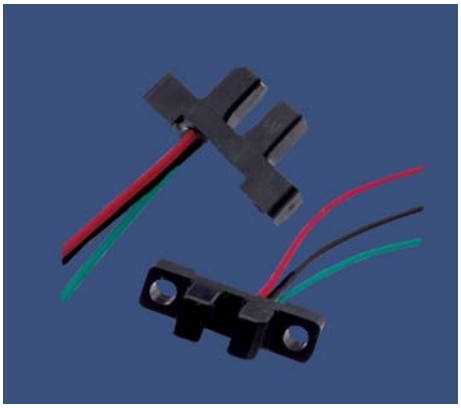
DIGITAL VANE SENSOR

VN Series



Magnetically activated digital vane sensor in a rugged, overmolded plastic housing with three pins or wire leads

Features

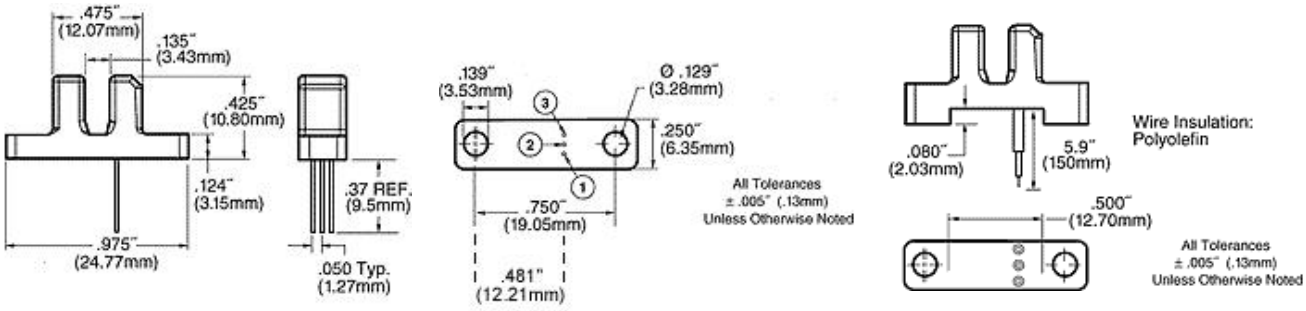
- Available in two operating temperature ranges.
- Immune to moisture and dust
- Reliable and repeatable
- No mechanical contacts to wear out
- Reverse battery protection to -24VDC
- Sensor body material: Glass filled polyester
- Open collector (sinking or NPN) output can be used with bipolar or cmos logic circuits with suitable pull-up resistor.
- Recommended vane parameters: low carbon cold-rolled steel at least 0.040" thick and 0.250" wide should penetrate to a depth <0.120" from bottom of sensor slot.

Specifications

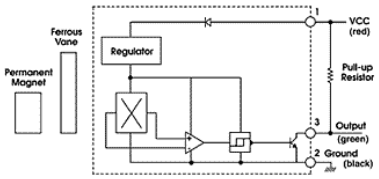
Part Number	Operating Voltage Range (VDC)	Supply Current (mA max.)	Output	Output Saturation Voltage (mV max.)	Output Current (mA max.)	Operating Temp Range (°C)	Storage Temp Range (°C)	Termination
VN101501	4.5 – 24	6	3-pin sink	400	25	-40 to 85	-40 to 85	pins
VN101502	5.0 – 24	6	3-pin sink	400	25	-40 to 125	-40 to 125	pins
VN101503	4.5 – 24	6	3-wire sink	400	25	-40 to 85	-40 to 85	24 AWG x 150mm leads
VN101504	5.0 – 24	6	3-wire sink	400	25	-40 to 125	-40 to 125	24 AWG x 150mm leads

Notes: These sensors require the use of an external pull-up resistor, the value of which is dependent on the supply voltage.
Pull-up resistor should be connected between output (Green) and Vcc (Red).

Dimensions mm



Open Collector Sinking Block Diagram



Recommended pull-up resistor values

Volts DC:	5	9	12	15	24
Ohms:	1K	1.8K	2.4K	3K	3K

Specifications subject to change without notice.

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