

# DIGITAL VANE SENSOR

## VN Series



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

### Features

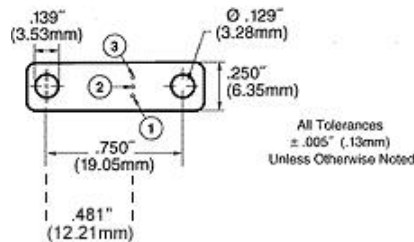
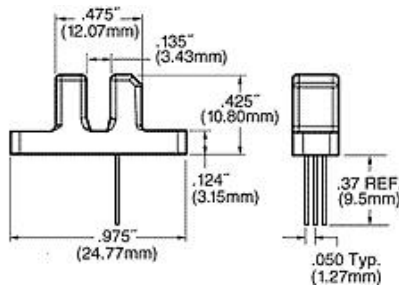
- Available in two operating temperature ranges.
- Immune to moisture and dust
- Reliable and repeatable
- No mechanical contacts to wear out
- Reverse battery protection to -24VDC
- Sensor body material: Glass filled polyester
- Open collector (sinking or NPN) output can be used with bipolar or CMOS 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

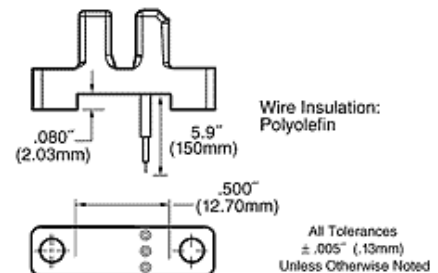
Part Number	Operating Voltage Range (VDC)	Supply Current (mA max)	Output	Output Saturation Voltage (mV max)	Output Current (mA max)	Operating Temperature Range (°C)	Storage Temperature Range (°C)	Termination
VN101501	3.8 - 24	7.5	3-pin sink	400	25	-40 to 85	-40 to 85	pins
VN101502	3.8 - 24	7.5	3-pin sink	400	25	-40 to 150	-40 to 150	pins
VN101503	3.8 - 24	7.5	3-wire sink	400	25	-40 to 85	-40 to 85	24 awg x 150mm leads
VN101504	3.8 - 24	7.5	3-wire sink	400	25	-40 to 150	-40 to 150	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).

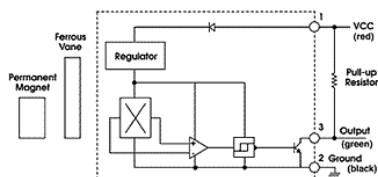
### Dimensions mm



All Tolerances ± .005" (.13mm) Unless Otherwise Noted



### Open Collector Sinking Block Diagram



Specifications subject to change without notice.

### Recommended pull-up resistor values

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

Last Updated 083011