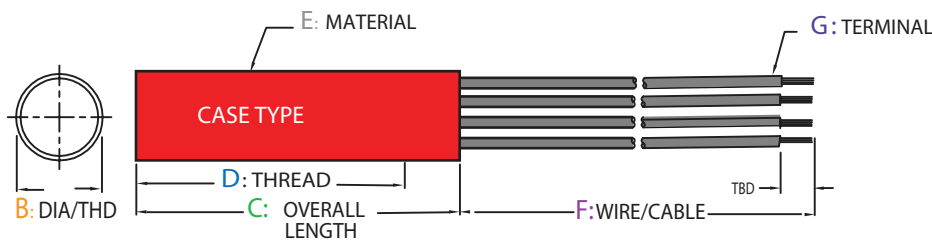


# VC Part Number Nomenclature

The standard part number includes the sensor type, case type, case diameter, terminal type as well as any special modifications.

Please contact Sensoronix if you need more detailed information.



CASE TYPES	DESCRIPTION	A
	SMOOTH	0
	ALL THREAD	1
	HEX HEAD	2
	KNURL HEAD	3
	CONNECTOR HEAD	4
	WRENCH FLAT HEAD	5
	SMOOTH / THREAD	6
	WITH FLANGE	7

Dual Output VR Speed Sensor				VC	X	X	X	-	X	X	0	Fixed Number (0)	
Case Type												Vary With Special Modifications	
Case Diameter "B"												Terminal "G"	
1/4" (0.250")	2X	<b>METRIC</b>										Connector	0
3/8" (0.375")	3X	M-8	08									Conn. & Wire	1
15/32" (0.468")	4X	M-12	12									Conn. & Cable	2
1/2" (0.500")	5X	M-16	16									Lead Wires	3
5/8" (0.625")	6X	M-18	18									Cables	4
3/4" (0.750")	7X	M-20	20										
7/8" (0.875")	8X	M-22	22										
Others	9X												



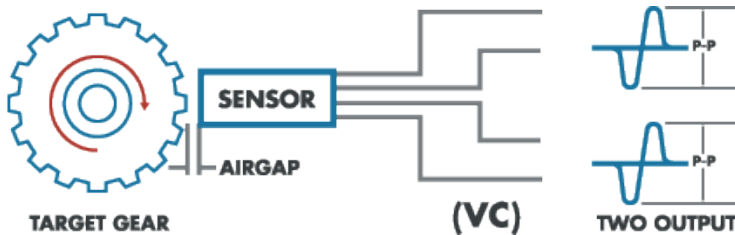
**AS9100**  
CERTIFIED  
**ISO 9001**



## VR Speed Sensor W/ Complementary Outputs (VC)



Non-contact magnetic sensors that measure the collapse of magnetic field due to the interruption by a ferrous gear tooth. These sensors provide two analog signal outputs (sine wave) that does not require an outside power source. This sensor is suitable for speed sensing with a range from 30 to 1000 inches per second with a target gear from one tooth per revolution to 32 pitch gear.



Target: Ferrous Material Gear Tooth w/ range of Min. 1 tooth or slot to 32 Gear Pitch

$$P = \frac{N + 2}{OD}$$

P = Gear Pitch  
N = Num. of Teeth  
OD = Outside Diameter

$$\text{Surface Speed (IPS)} = \frac{\text{RPM} \cdot \pi \cdot D}{60}$$

0 to Peak Voltage = Peak to Peak X 0.5  
RMS = Peak to Peak X 0.35

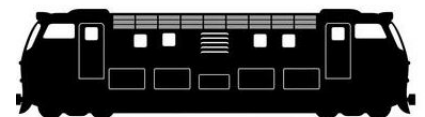
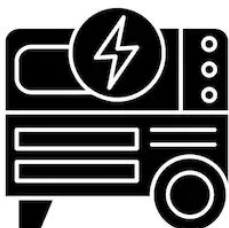
Output Type: Dual Outputs Analog (Sine Wave)



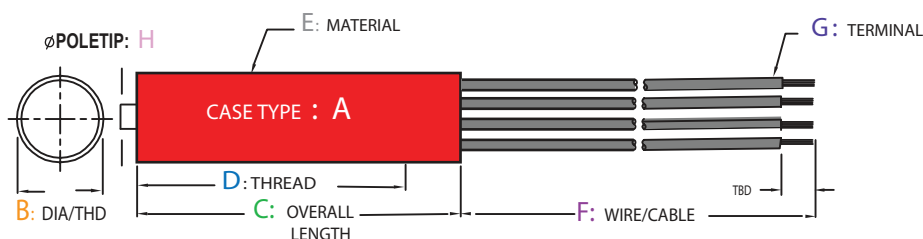
### Example of Common Applications

#### Power Generation, Automotive, Aerospace, Railroad & Mining

**Applications:** Wind Mill, Golf Cart, Airplane, Flow Meter, Race Car, Truck, Motorcycle, Boat, Helicopter, Crankshaft, Transmission, Generator, Engine, Tractors, Hydraulics, Windmills, Wind Turbines, Locomotive, Golf Carts, Off Road Equipment.



# Standard (VC) Products Available



Please contact Sensoronix for more detailed information on the standard sensors listed below.  
All products are custom designed to meet your exact specification requirements.

PART #	MECHANICAL SPECIFICATIONS							H	ELEC. SPEC.	ENVIROMENT	
	A	B	C	D	E	F	G		COIL RESISTANCE (Ohm)	TEMP RANGE (°C)	FRONT SEALED
5/8" Diameter Series											
VC160-100	1	5/8 - 18	3.06	3.06	303 S.S.	3.25 ± .25	20 AWG, LEAD WIRES W/ TEFF. INS. PACKARD CONN: 1205 2641 (2x)	.187	(2x) 180 ± 20%	-40 to 105	Epoxy
VC260-100	2	5/8 - 18	3.31	3.00	303 S.S.	16 ± 1	16 AWG, SXL LEAD WIRES PACKARD CONN: 1201 10973 (2x)	.187	(2x) 500	-65 to 105	Epoxy
3/4" Diameter Series											
VC370-100	3	3/4 - 16	3.00	2.44	303 S.S.	30 ± 1.5	18 AWG, SXL LEAD WIRES W/ PACKARD CONN: 120 10973 (2x)	.187	830 - 1220	-40 to 105	Epoxy
VC570-300	5	3/4 - 16	2.64	2.14	303 S.S.	12	18 AWG, SXL LEAD WIRES	.187	(2x) 180 ± 20%	-40 to 105	Epoxy
M12 Diameter Series											
VC312-300	3	M12 x 1.0	2.56	2.06	303 S.S.	6	20 AWG, LEAD WIRE W/ TEFF. INS.	.125	(2x) 400 ± 10%	-40 to 105	303 S.S.
M18 Diameter Series											
VC218-100	2	M18 x 1.0	3.70	3.40	303 S.S.	16 ± 1	16 AWG SXL LEAD WIRES DEUTCH CONN. P/N:DT04-2P (2x)	.187	(2x) 500	-65 to 105	Epoxy
VC218-400	2	M18 x 1.5	2.25	1.30	303 S.S.	78.8 ± 1	26 AWG, 2 CON. CBL. W/ SHLD, TEFF. INS. (2X). RING TERMINAL (5x)	.187	(2x) 800 ± 15%	-55 to 75	303 S.S.

