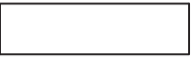




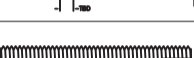
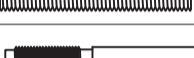

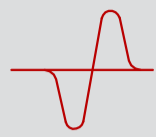


CASE TYPES	DESCRIPTION	A
	SMOOTH	0
	ALL THREAD	1
	HEX HEAD	2
	KNURL HEAD	3
	CONNECTOR HEAD	4
	WRENCH FLAT HEAD	5
	SMOOTH / THREAD	6
	WITH FLANGE	7

**Target:** Ferrous Material Gear Tooth with range of  
 Min 1 tooth or slot to the Max 32.

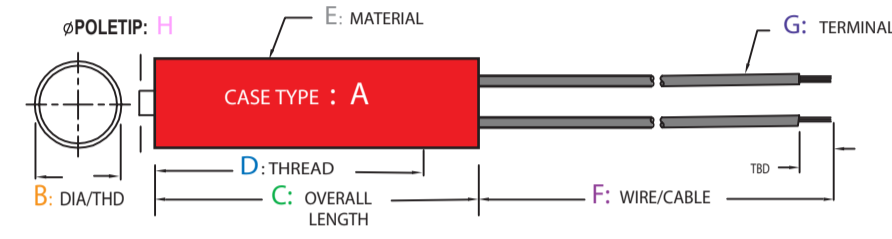
$$P = \frac{N + 2}{OD}$$

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

**Output Type:** Analog (Sine Wave) 

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

0 to Peak voltage = Peak to Peak x 0.5  
 RMS = Peak to Peak x 0.35



## STANDARD PRODUCT LIST

Product P/N	MECHANICAL SPECIFICATIONS							ELECTRICAL SPECIFICATIONS		ENVIRONMENT
	A	B	C	D	E	F	G	H	COIL RESISTANCE	TEMPRETURE RANGE °C
<b>3/8" Diameter Series</b>										
VR130 -300	1	3/8 -24	1.25	1.25	303 S.S	34±.25	18 AWG, XLP Wire	0.04	670±20%	-40 to 125
VR130 -400	1	3/8 -24	1.25	1.25	303 S.S	25±1	22 AWG, Shielded Cbl	0.093	650±15%	-40 to 125
VR330 -400	3	3/8 -24	2.7	2.27	303 S.S	6±3.0	22 AWG, Shielded Cbl	0.093	670±20%	-40 to 105
VR530 -400	5	3/8 -24	4.00	3.55	303 S.S	73±3.0	22 AWG, Shielded Cbl	0.093	800±20%	-40 to 105
VR530 -410	5	3/8 -24	2.70	2.25	303 S.S	73±3.0	22 AWG, Shielded Cbl	0.093	800±20%	-40 to 105
VR530 -420	5	3/8 -24	1.70	1.25	303 S.S	73±3.0	22 AWG, Shielded Cbl	0.093	800±20%	-40 to 105
<b>1/2" Diameter Series</b>										
VR050 -000	0	1/2	1.69	-	Plastic	-	2 Pins (D 0.062" , L 0.480")	0.106	1200±20%	-54 to 107
VR150 -300	1	1/2-20	1.25	1.25	ALUM	8±0.5	18 AWG	0.04	650±20%	-40 to 107
VR450 -000	4	1/2	5.00	3.5	303 S.S	-	MS Connector: MS3106A	0.125	650±20%	-40 to 125
<b>5/8" Diameter Series</b>										
VR160 -200	1	5/8-18	3.125	3.125	303 S.S	2.25±.25	Lead / Conn.	0.187	180±20%	-40 to 105
VR160 -220	1	5/8-18	1.75	1.75	303 S.S	19.25 ±1.0	Cable/ Turck Connector	0.188	180±20%	-40 to 105
VR160 -300	1	5/8-18	3.125	3.125	303 S.S	7±.5	20 AWG, Teflon Leads	0.187	180±20%	-40 to 107
VR160 -310	1	5/8-18	3.125	3.125	303 S.S	12.0±.5	20 AWG, Teflon Leads	0.106	2000±20%	-54 to 107
VR160 -320	1	5/8-18	3.125	3.125	303 S.S	12±.25	20 AWG, Tefzel Leads	0.187	180±20%	-65 to 107
VR160 -330	1	5/8-18	5.00	5.00	303 S.S	12±.25	20 AWG, Tefzel Leads	0.188	180±20%	-40 to 105
VR160 -340	1	5/8-18	2.37	2.37	ALUM	12±.25	16 AWG Leads	0.188	180±20%	-40 to 105
VR460 -000	4	5/8-18	4.25	3.12	303 S.S	-	MS3106A Connector	0.187	180±20%	-54 to 107
VR460 -010	4	5/8-18	2.62	1.48	303 S.S	-	MS3106A Connector	0.187	144-198	-54 to 107
VR460 -020	4	5/8-18	2.62	1.48	303 S.S	-	MS3106A Connector	0.106	40-85	-54 to 107
VR460 -030	4	5/8-18	2.62	1.48	303 S.S	-	MS3106A Connector	0.106	1200±10%	-54 to 107
VR460 -040	4	5/8-18	5.13	4.00	303 S.S	-	MS3106A Connector	0.106	1200±10%	-54 to 107
VR460 -050	4	5/8-18	6.125	5.00	303 S.S	-	MS3106A Connector	0.187	180±20%	-40 to 105
VR460 -060	4	5/8-18	4.25	3.12	303 S.S	-	MS3106A Connector	0.187	913±20%	-40 to 105
VR560 -300	5	5/8-18	3.86	3.86	ALUM	12±.25	16 AWG Leads	0.188	180±20%	-40 to 105
<b>3/4" Diameter Series</b>										
VR170 -300	1	3/4-16	3	3	ALUM	14±.5	20 AWG, Tefzel Leads	0.106	2500±10%	-54 to 107
VR270 -100	2	3/4-16	3	2.57	ALUM	3.5±.5	16 AWG, Packard Conn.	0.187	565±20%	-54 to 121
VR270 -110	2	3/4-16	4.06	3.63	ALUM	2.25±.25	18 AWG, SXL L.Wire/Conn.	0.188	180±20%	-65 to 121
VR270 -300	2	3/4-16	2.3	1.87	ALUM	12±1	18 AWG, SXL Lead Wire	0.187	450±20%	-54 to 107
VR270 -310	2	3/4-16	4.06	3.63	ALUM	4.25±.25	20 AWG, Tefzel Leads	0.188	180±20%	-40 to 105
VR570 -300	5	3/4-16	1.47	1.17	303 S.S	6.0±.5	18 AWG, SXL Lead Wire	0.188	1000±20%	-40 to 105
<b>M12" Diameter Series</b>										
VR112-300	1	M12X1	3.00	3.00	303 S.S	6.0 ±1.0	18 AWG Lead Wire	0.125	650±13%	-40 to 125
VR312-300	3	M12x1	4.06	3	303 S.S	6.0±1.0	18 AWG, L. wire: Red/White	0.125	650±20%	-40 to 125
* VR312-310	3	M12X1	3.06	2	303 S.S	59.0±1.0	18 AWG, Teflon Lead Wire	0.125	850±13%	-40 to 150
* VR312-320	3	M12x1	4.06	3	303 S.S	59.0±1.0	18 AWG, Teflon Lead Wire	0.125	850±13%	-40 to 150
* VR312-330	3	M12X1	5.06	4	303 S.S	59.0±1.0	18 AWG, Teflon Lead Wire	0.125	850±13%	-40 to 150
VR312-340	3	M12x1.25	5.5	5	303 S.S	79.0±1.0	18 AWG, Teflon Lead Wire	0.125	850±13%	-40 to 150
VR312-400	3	M12X1	2.56	1.8	303 S.S	18.0±.5	22 AWG Cable	0.125	650±20%	-40 to 105
VR412-000	4	M12x1.25	3.88	2.5	304 S.S	-	MS3106A Connector	0.093	1600±20%	-28 to 121
<b>M16" Diameter Series</b>										
VR116 -200	1	M16X1.5	3.125	3.125	303 S.S	2.25±.25	Lead and Conn.	0.188	180±20%	-40 to 105
VR116 -300	1	M16x1.5	4	4	303 S.S	8.25±.25	18 AWG, SXL Lead Wire	0.106	210±20%	-54 to 107
VR116 -310	1	M16X1.5	3.125	3.125	303 S.S	8±.25	18 AWG, Lead	0.188	180±20%	-40 to 125
VR216 -400	2	M16x1.5	3	2.69	ALUM	6.0±.25	22 AWG Cable	0.093	1600±20%	-28 to 121
VR416 -000	4	M16X1.5	4.25	3.12	303 S.S	-	MS3106A Connector	0.188	180±20%	-40 to 105
VR416 -010	4	M16X1.5	4.25	3.12	303 S.S	-	MS3106A Connector	0.106	52±20%	-40 to 105
<b>M18" Diameter Series</b>										
VR118-100	1	M18x1.5	2	2	303 S.S	2.25±.25	18 AWG, SXL L. Wire/Conn.	0.188	180±20%	-40 to 125
VR118-300	1	M18x1.5	3.125	3.125	303 S.S	8.25±.25	18 AWG, PVC Lead Wire	0.188	180±20%	-40 to 125
<b>M20" Diameter Series</b>										
VR120-100	1	M20X1.5	2	2	303 S.S	2.25±.25	18 AWG, SXL L.Wire/Conn.	0.188	180±20%	-40 to 125

NOTE: ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED  
 \* SEALED FRONT