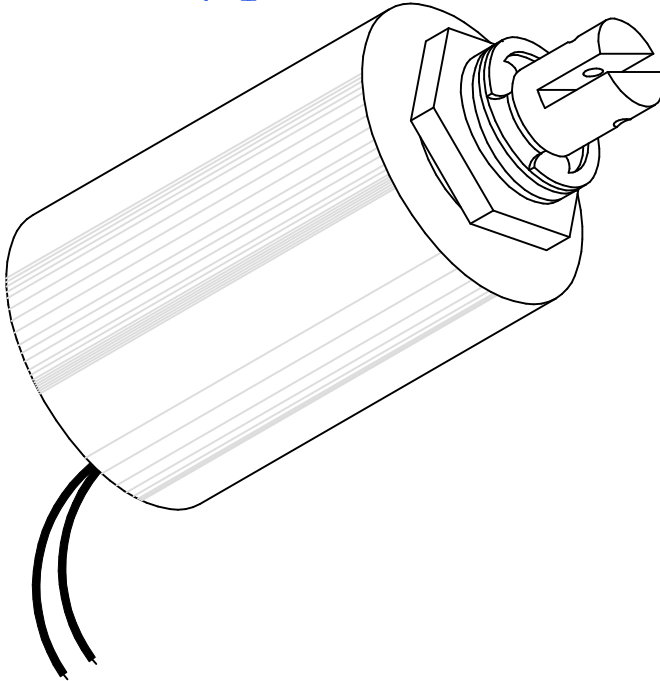


# MAGNETIC SENSOR SYSTEMS

## *Pull Type Tubular Solenoid*



**Series S-29-200**  
**2.0" DIA X 2.85"**  
**[50.8 mm X 72.4 mm]**

TOTAL WEIGHT: 34.2 OUNCES [970 GR]

PLUNGER WEIGHT: 4.3 OUNCES [122 GR]

duty cycle maximum "ON" time, (Sec.)	1 (100%) ∞	1/2 (50%) 840	1/4 (25%) 270	1/10 (10%) 90
watts approximate ampere turns	18 2400	36 3400	72 4800	180 7600

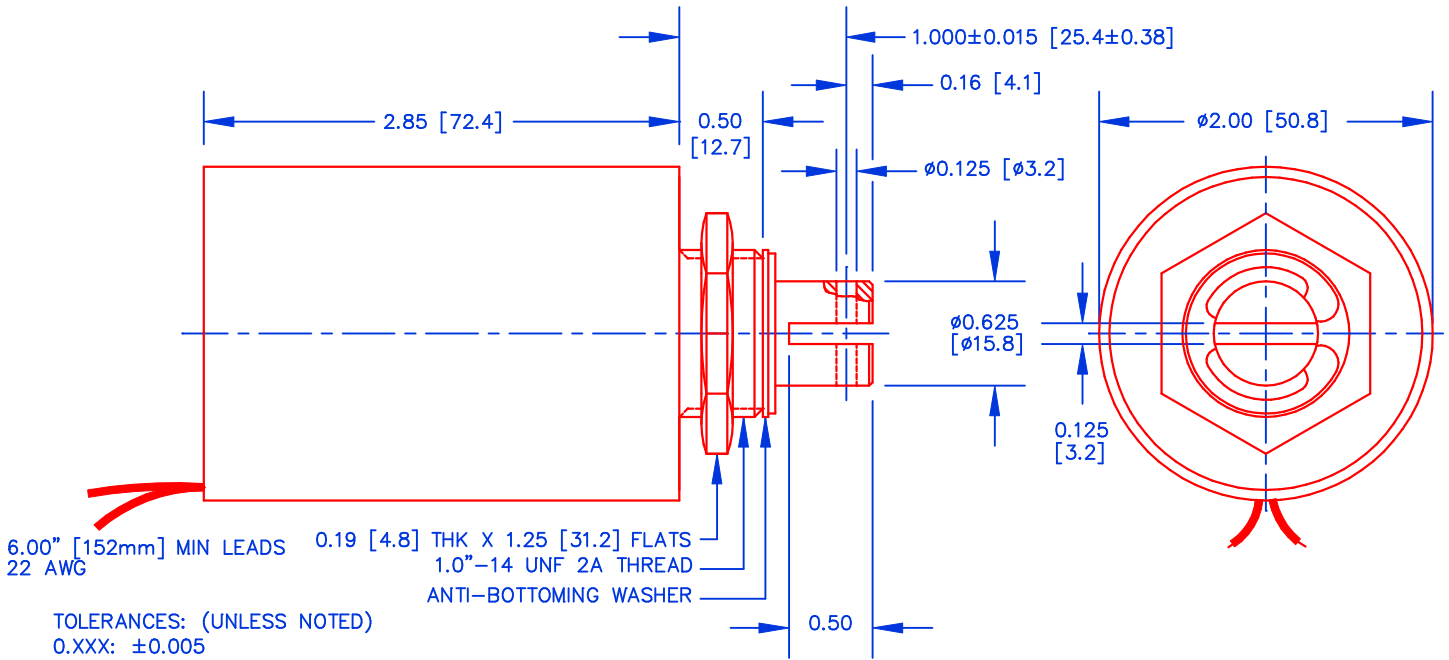
AWG number	resistance (Ω)	volts DC	volts DC	volts DC	volts DC
18	1.5	5.1	7.3	10.3	16.2
19	2.4	6.4	9.1	12.9	20.4
20	3.7	8.0	11.4	16.0	25.4
21	5.8	10.2	14.5	20.4	32.3
22	9.3	12.8	18.2	25.7	40.6
23	15.0	16.3	23.1	32.7	51.7
24	24.3	20.6	29.1	41.1	65.1
25	38.1	26.2	37.2	52.5	83.0
26	60.7	33.0	46.8	66.0	105
27	94.7	40.9	58.0	81.9	130
28	155	53.2	75.4	106	168
29	238	65.9	93.3	132	209
30	398	84.5	120	169	268
31	625	106	151	213	337
32	965	132	187	264	418
33	1595	171	242	342	541
34	2725	223	315	445	
35	4229	278	393	555	

HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

# MAGNETIC SENSOR SYSTEMS

S-29-200

## MECHANICAL DIMENSIONS



TOLERANCES: (UNLESS NOTED)  
 0.XXX: ±0.005  
 0.XX : ±0.010  
 X/X: ±1/64  
 COIL RESISTANCE: ±10%  
 DIMENSIONS IN INCHES [mm]

SOLENOID SHOWN ENERGIZED

## TYPICAL PULL FORCE VERSUS STROKE

