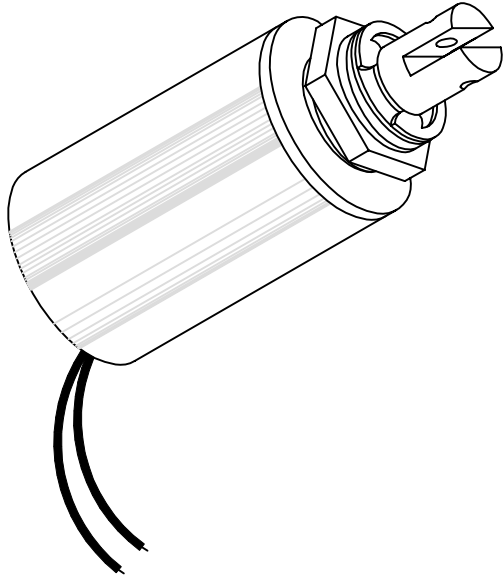


# MAGNETIC SENSOR SYSTEMS

## *Pull Type Tubular Solenoid*



**Series S-20-125**  
**1 1/4" DIA X 2"**  
**[31.8 mm X 50.8 mm]**

**TOTAL WEIGHT: 9.5 OUNCES [270 GR]**  
**PLUNGER WEIGHT: 1.6 OUNCES [45 GR]**

duty cycle	1 (100%)	1/2 (50%)	1/4 (25%)	1/10 (10%)
maximum "ON" time, (Sec.)	$\infty$	240	60	20
watts	12	24	48	120
approximate ampere turns	1300	1840	2600	4110

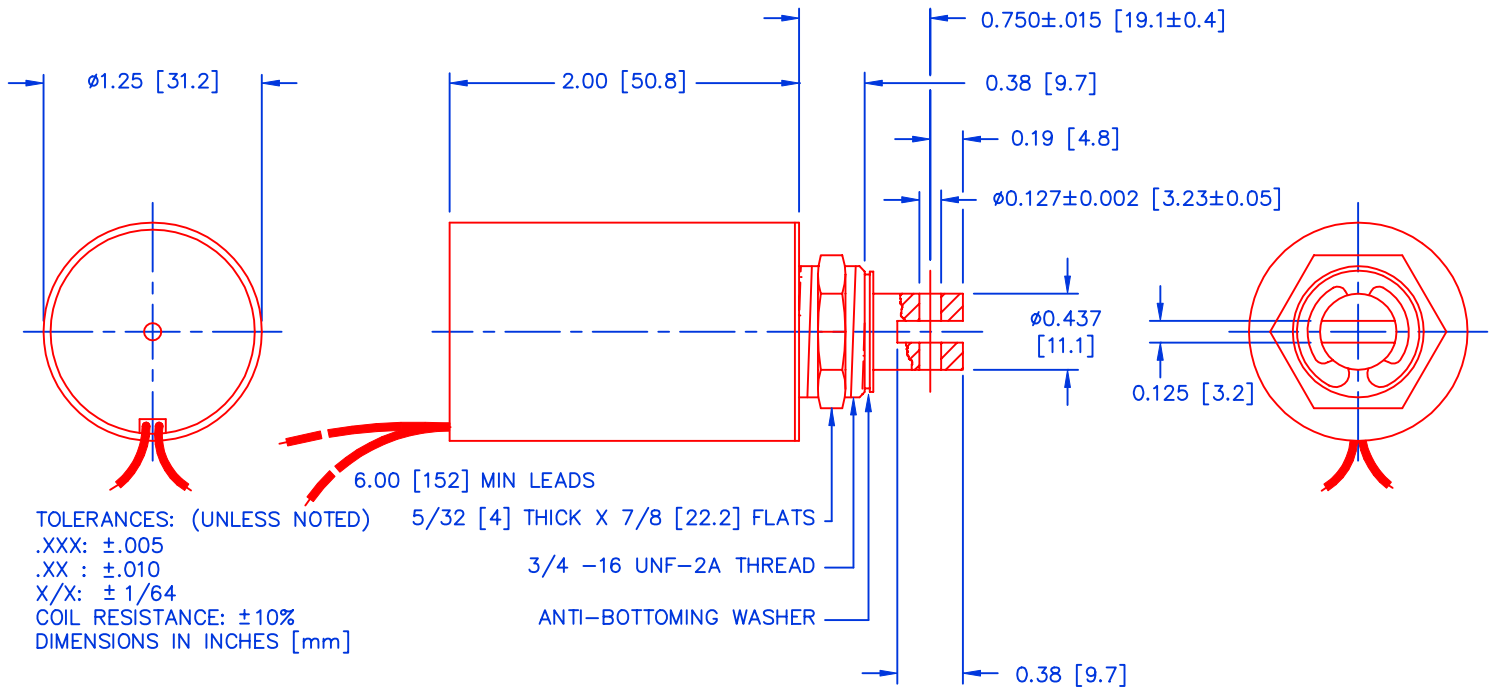
AWG number	resistance ( $\Omega$ )	volts DC	volts DC	volts DC	volts DC
19	0.3	2.0	2.8	3.9	6.2
20	0.6	2.8	3.9	5.5	8.7
21	0.9	3.3	4.6	6.5	10.4
22	1.7	4.5	6.3	9.0	14.2
23	2.7	5.7	8.1	11.5	18.1
24	4.4	7.3	10.3	14.6	23.0
25	7.0	9.1	12.9	18.3	28.9
26	11.6	11.8	16.7	24.0	37.4
27	18.1	14.7	20.8	30.0	46.6
28	28.2	18.4	26.0	36.8	58.2
29	39.6	21.8	30.8	43.6	68.9
30	69.3	28.8	40.8	57.7	91.2
31	114	37.0	52.3	74.0	117
32	179	46.3	65.5	92.7	147
33	287	58.7	83.0	117	186
34	461	74.4	105	149	235
35	758	95.4	135	191	302
36	1205	120	170	241	380

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-20-125

## MECHANICAL DIMENSIONS



SOLENOID SHOWN ENERGIZED

## TYPICAL PULL FORCE VERSUS STROKE

