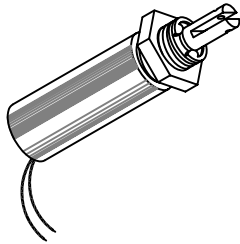


MAGNETIC SENSOR SYSTEMS

Pull Type Tubular Solenoid



Series S-10-38
3/8" DIA X 1.00"
[9.7 mm X 25.4 mm]

TOTAL WEIGHT: 0.44 OUNCES [12.5 GR]
PLUNGER WEIGHT: 0.10 OUNCES [2.9 GR]

| | | | | |
|---------------------------|----------|----------|----------|-----------|
| duty cycle | 1(100%) | 1/2(50%) | 1/4(25%) | 1/10(10%) |
| maximum "ON" time, (Sec.) | ∞ | 65 | 15 | 4 |
| watts | 2 | 4 | 8 | 20 |
| approximate ampere turns | 290 | 410 | 580 | 920 |

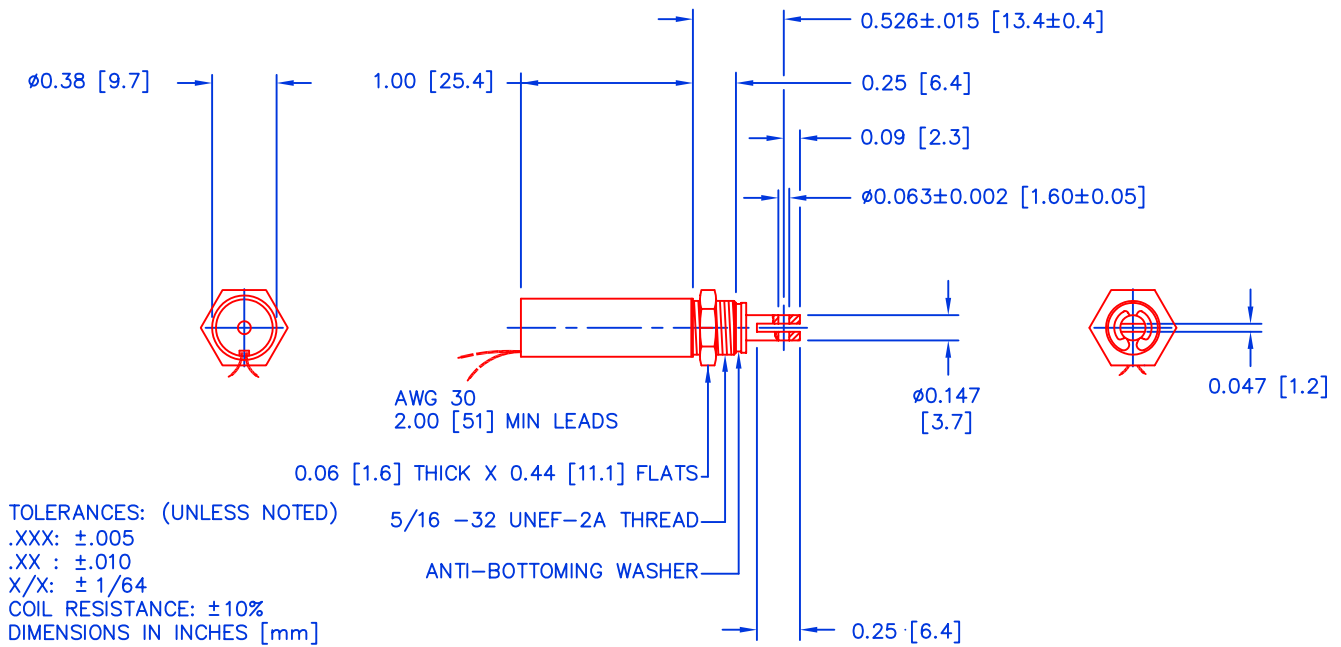
| AWG number | resistance (Ω) | volts DC | volts DC | volts DC | volts DC |
|------------|-------------------------|----------|----------|----------|----------|
| 27 | 0.62 | 1.1 | 1.6 | 2.2 | 3.5 |
| 28 | 0.86 | 1.3 | 1.8 | 2.6 | 4.1 |
| 29 | 1.56 | 1.8 | 2.5 | 3.5 | 5.6 |
| 30 | 2.54 | 2.3 | 3.2 | 4.5 | 7.1 |
| 31 | 3.83 | 2.8 | 3.9 | 5.5 | 8.8 |
| 32 | 6.0 | 3.5 | 4.9 | 6.9 | 11.0 |
| 33 | 9.8 | 4.4 | 6.3 | 8.9 | 14.0 |
| 34 | 12.8 | 5.1 | 7.2 | 10.1 | 16.0 |
| 35 | 22.9 | 6.8 | 9.6 | 13.5 | 21.4 |
| 36 | 31.0 | 7.9 | 11.1 | 15.7 | 24.9 |
| 37 | 50.1 | 10.0 | 14.2 | 20.0 | 31.7 |
| 38 | 78.9 | 12.6 | 17.8 | 25.1 | 39.7 |
| 39 | 147 | 17.2 | 24.3 | 34.4 | 54.4 |
| 40 | 256 | 22.6 | 32.0 | 45.2 | 71.5 |
| 41 | 400 | 28.3 | 40.0 | 56.6 | 89.4 |
| 42 | 676 | 36.8 | 52.0 | 73.5 | 116.3 |

HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 2.0" x 2.0" x 1/8" aluminum plate in an unrestricted flow of air.

MAGNETIC SENSOR SYSTEMS

S-10-38

MECHANICAL DIMENSIONS



SOLENOID SHOWN ENERGIZED

TYPICAL PULL FORCE VERSUS STROKE

