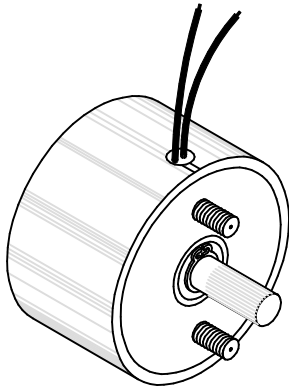


# MAGNETIC SENSOR SYSTEMS

## Rotary Solenoid

Counter-Clockwise – Reverse Shaft Extension



Series R-09-150-CCWN  
1 1/2" DIA X 0.87"

TOTAL WEIGHT: 5.0 OUNCES

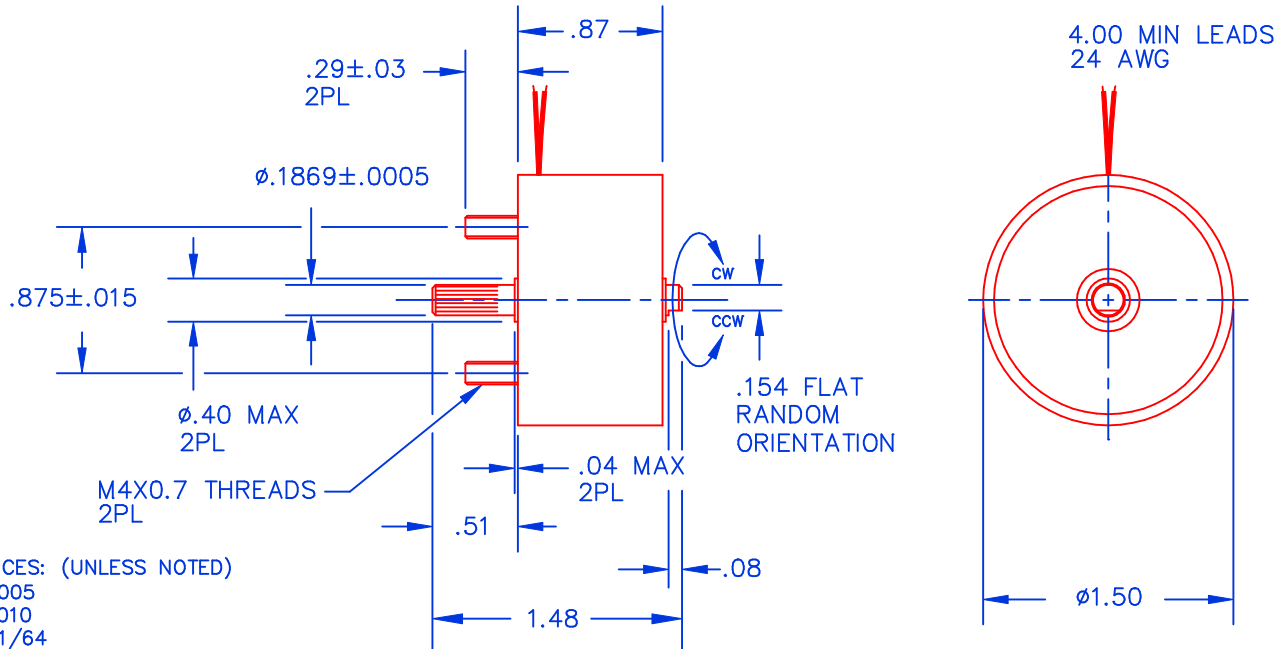
|                           |     |     |     |      |
|---------------------------|-----|-----|-----|------|
| duty cycle                | 1   | 1/2 | 1/4 | 1/10 |
| maximum "ON" time, (Sec.) | ∞   | 300 | 60  | 12   |
| watts                     | 9   | 18  | 36  | 90   |
| approximate ampere turns  | 370 | 520 | 730 | 1160 |

| AWG number | resistance | volts DC | volts DC | volts DC | volts DC |
|------------|------------|----------|----------|----------|----------|
| 20         | 0.15       | 1.1      | 1.6      | 2.3      | 3.6      |
| 21         | 0.19       | 1.3      | 1.9      | 2.6      | 4.2      |
| 22         | 0.41       | 1.9      | 2.7      | 3.8      | 5.9      |
| 23         | 0.54       | 2.3      | 3.2      | 4.5      | 7.2      |
| 24         | 1.0        | 3.1      | 4.4      | 6.2      | 9.8      |
| 25         | 1.7        | 4.0      | 5.6      | 7.9      | 12.6     |
| 26         | 2.4        | 4.7      | 6.7      | 9.4      | 14.9     |
| 27         | 4.4        | 6.3      | 8.9      | 12.6     | 19.9     |
| 28         | 6.8        | 8.0      | 11.4     | 16.1     | 25.4     |
| 29         | 11.5       | 10.0     | 14.1     | 19.9     | 31.5     |
| 30         | 20.2       | 12.9     | 18.2     | 25.7     | 40.7     |
| 31         | 27.0       | 15.9     | 22.5     | 31.8     | 50.2     |
| 32         | 44.0       | 19.5     | 27.6     | 39.0     | 61.8     |
| 33         | 71.0       | 25.0     | 35.4     | 50.0     | 79.1     |
| 34         | 117        | 32.4     | 45.9     | 64.9     | 103      |
| 35         | 188        | 41.7     | 59.0     | 83.4     | 132      |
| 36         | 295        | 51.4     | 72.8     | 103      | 163      |
| 37         | 437        | 60.8     | 86.1     | 122      | 192      |

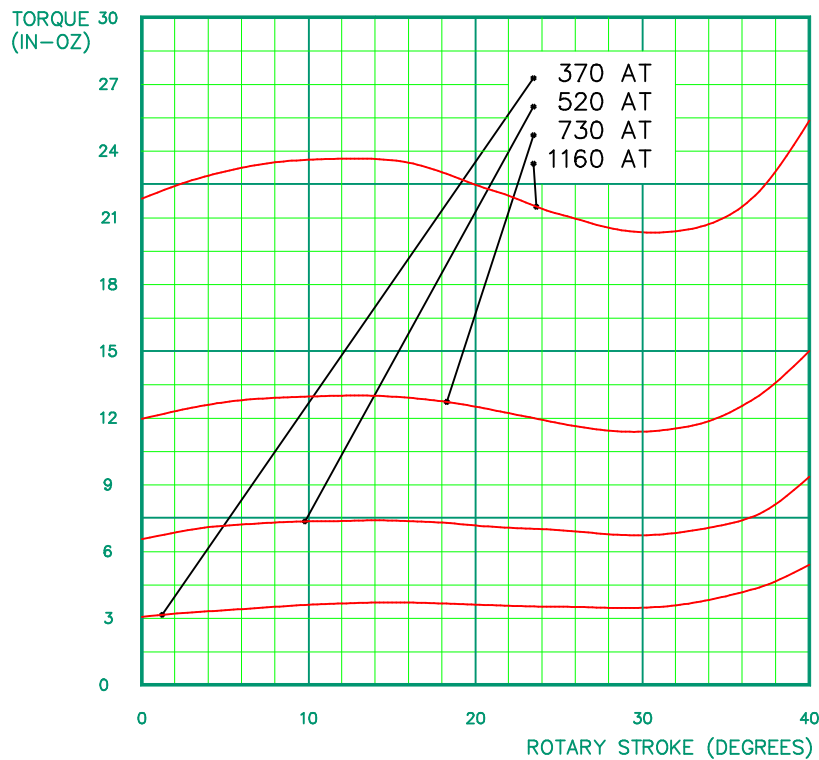
HEAT SINK: For proper heat dissipation, body of solenoid should be mounted on an equivalent of 6.0" x 6.0" x 1/8" aluminum plate in an unrestricted flow of air.

# MAGNETIC SENSOR SYSTEMS

R-09-150-CCWN      MECHANICAL DIMENSIONS  
 COUNTER-CLOCKWISE – REVERSE SHAFT EXTENSION



## TYPICAL TORQUE VERSUS ROTARY STROKE



These torque curves do not account for return springs.

The typical return spring torque is 2.2 IN-OZ.