

1

2

3

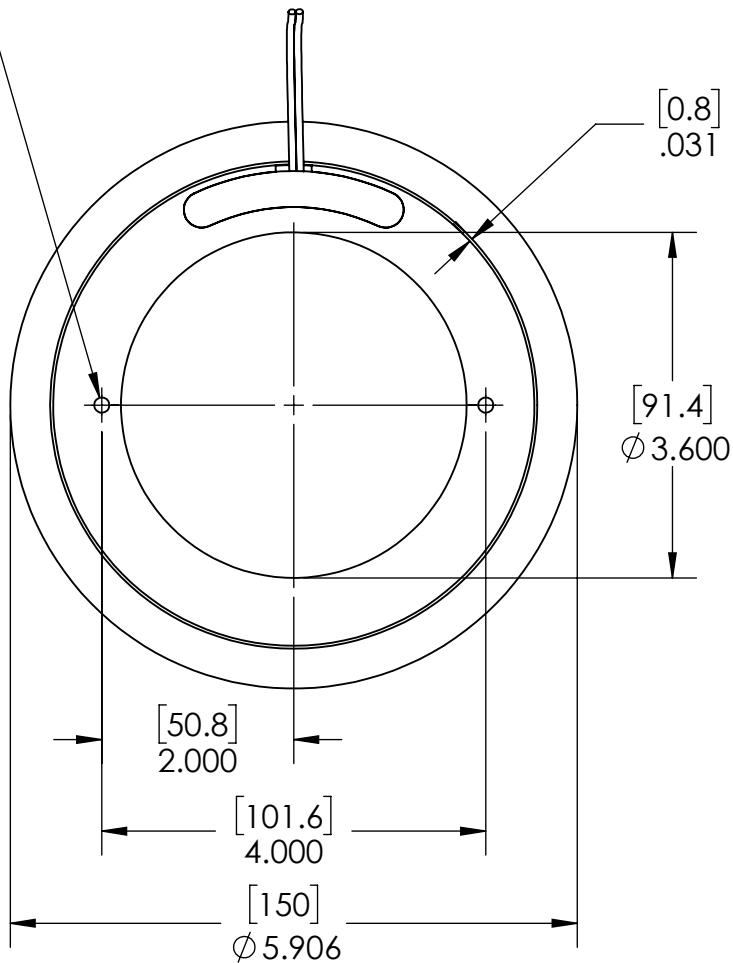
4

5

REVISION TABLE

| REV | ECN# | DESCRIPTION | REV BY | APPROVED | DATE |
|-----|------|------------------|--------|----------|---------|
| --- | --- | Original Drawing | JRM | MPW | 11-1-22 |

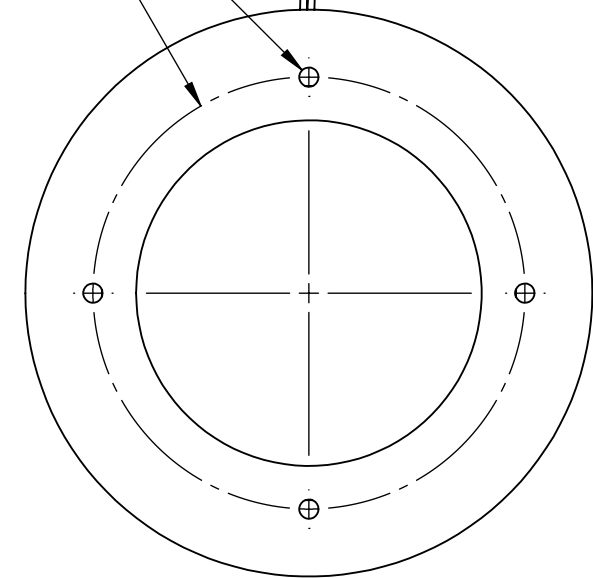
2X 10-32 UNF THRU ALL



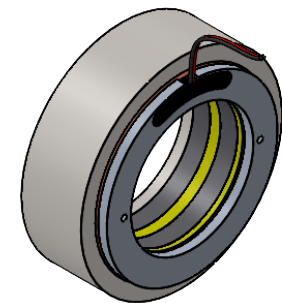
4X 1/4-20 UNC THRU ALL

[114.3]
Ø 4.500 Bolt Circle

MOTION

[44.5]
1.750
[52.4]
2.063Power Leads (2)
18 inch length
#22 AWG
(White and Black)

When + is connected to White
and - is connected to Black,
the coil will move to the left
(out of the magnet assembly).



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UNLESS SPECIFIED OTHERWISE:
All dimensions are in inches
Standard Tolerances are as follows
.XXX ±.005 ANGLES ±1°
.XX ±.010 FILLETS .010
.X ±.020 CORNERS .010
Remove All Burrs and Sharp Edges

**FOR
REFERENCE
ONLY**

MATERIAL
FINISH

TITLE

Non Commutated DC Linear Actuator Model#
NCC01-58-300-2H

DWG #

30-1591

REV

DATE

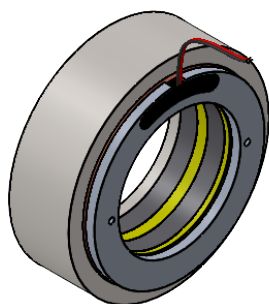
10-13-22

SHEET

1 of 2

NON-COMM ACTUATOR SPECIFICATIONS

| | | |
|--------------------------|-------------------------|-------------------|
| Motor P/N | NCC01-58-300-2H | |
| Device Type | Moving Coil | |
| Stroke | 0.13 in | 3.2 mm |
| Radial Clearance | 0.030 in | 0.8 mm |
| Bearing Type | None | |
| Moving Mass | 0.6 lbs. | 275 g |
| Total Mass | 1.9 lbs | 860 g |
| Resistance @ 20C | 3.3 ohms \pm 0.5 ohms | |
| Inductance @ 20C | 6.0 mH \pm 2.0 mH | |
| Electrical Time Constant | 1.5 msec | |
| Motor Constant | 2.9 lbs/sqrt(watt) | 13.0 N/sqrt(watt) |
| Force Constant | 5.3 lbs/amp | 23.6 N/amp |
| Back EMF | 0.6 V/ips | 23.6 V/m/sec |
| Force @ 100% Duty | 26 lbs | 116 N |
| Power @ 100% Duty | 80 watts | |
| Current @ 100% Duty | 4.9 amps | |
| Force @ 10% Duty | 78 lbs | 348 N |
| Power @ 10% Duty | 700 watts | |
| Current @ 10% Duty | 14.7 amps | |



The values in the table above are calculated and will be confirmed with testing once the actuator is built. This table does not convey any guarantee of the values above prior to any testing.

