SPECIFICATIONS

ELECTRICAL

RESISTANCE ——————————————— 10K OHMS
RESISTANCE TOLERANCE ——————— ±20%
LINEARITY (INDEPENDENT) ————— ±5.0%
POWER RATING ——————————————— 0.1 WATT (0.04 FOR "Z" AXIS)
LEVER ELECTRICAL ANGLE ———————— 20° (60° FOR "Z" AXIS)
RESOLUTION —————————————————— ESSENTIALLY INFINITE
OUTPUT SMOOTHNESS ————————————— BELOW 0.2% C.R.V.
CONTACT RESISTANCE VARIATION ———— BELOW 6% C.R.V.
INSULATION RESISTANCE ——————————— 1000 MEGA OHMS @ 500VDC.
DIELECTRIC STRENGTH ——————————— 1 MINUTE AT 500 VAC
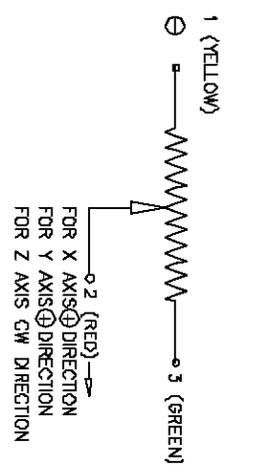MAX. WIPER OUTPUT ——————————————— 19μA RECOMMENDED, 1mA MAX.

MECHANICAL

RANGE OF OPERATING LEVER —————— "X" & "Y": ±10° ~ ±15° FROM CENTER
  "Z" AXIS: ±30° ~ ±35° FROM KNOB CENTER
OPERATING FORCE ——————————————— "X" & "Y": APPROX. 3.6 ~ 7.14 OZ-F.
  "Z" AXIS: APPROX. 4.23 ~ 9.87 OZ-IN.
OPERATING TEMPERATURE ————————— -20°C TO +60°C
LIFE EXPECTANCY ——————————————— 2 MILLION OPERATIONS
WEIGHT ——————————————————————— APPROX. 21 OZ.
SHOCK ———————————————————————— APPROX. 1.0 OZ.

MATERIALS

HOUSING ——————————————————————— ALUMINUM AND HIGH TEMP. THERMO PLASTIC
ELEMENT —————————————————————— CONDUCTIVE PLASTIC
KNOB ————————————————————————— HARD PLASTIC

SCHEMATIC

1 (YELLOW)

2 (RED)

3 (GREEN)

FOR X AXIS ⊕ DIRECTION
FOR Y AXIS ⊕ DIRECTION
FOR Z AXIS CW DIRECTION

"N" LEVER DIRECTION

PANEL ARRANGEMENT

0.60 TYP
0.60 TYP
DIA. 1.28
DIA. 0.137 HOLE 4 PLCS.
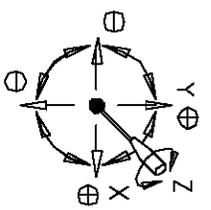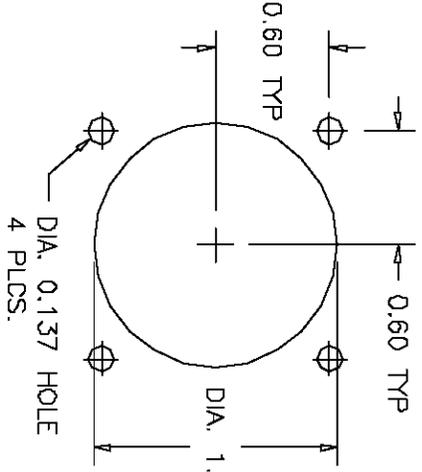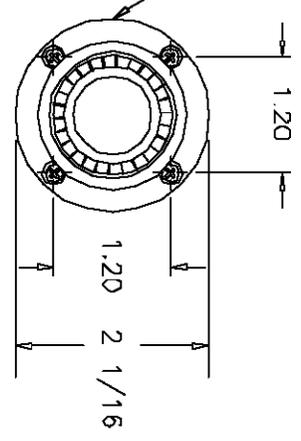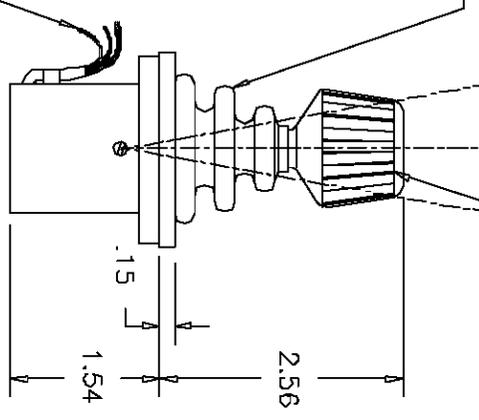

BLACK PLASTIC DRESS PANEL WITH MOUNTING SCREWS.

DUST PROOF RUBBER BOOT.

10 TO 15 DEGREES TYP.

"Z" AXIS CONTROL KNOB WITH SPRING CENTER POSITION RETURN.

LEAD WIRES, 12"
TAGGED "X" POT AWG28
"Y" POT AWG28
"Z" POT AWG27

1.34
.15
2.56
1.54

1.20
1.20   2 1/16

REV.	BY	DATE	APPRVL.

P/N   J30-NM30-SB

TITLE   JOYSTICK

PART NO.   J30-NM30-SB

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