

ELECTRICAL SPECIFICATIONS:

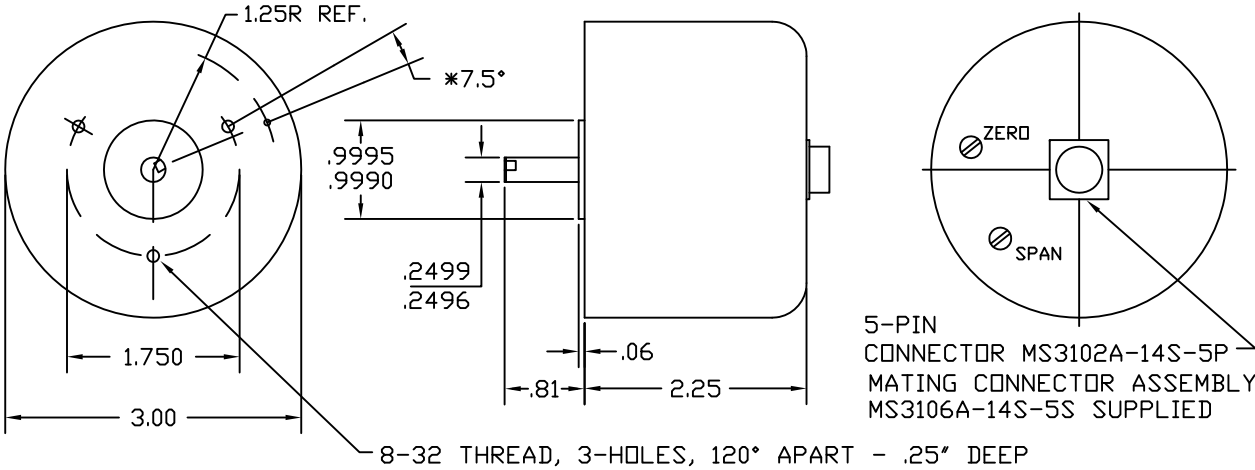
MODEL NO.	DISPL RANGE +CW -CCW	LINEARITY *	MAX.RANGE USUABLE	LINEARITY USUABLE RANGE	OUTPUT V.D.C.	INPUT/ OUTPUT CURVE	TYPICAL TEMP. COEFF. SPAN/°F	SLOT ANGLE POSITION
0600-0000	±30°	±0.05%	±40°	±0.10%	100mv/°	1	-0.01%	0° ±3°
0601-0000	10°-70°CW	±0.05%	0°-80°CW	±0.10%	100mv/°	2	-0.015%	40°CW ±3°
0602-0000	10°-70°CCW	±0.05%	0°-80°CCW	±0.10%	100mv/°	3	-0.01%	40°CCW ±3°
0603-0000	±60°	±0.10%	±80°	±0.15%	100mv/°	4	-0.01%	0° ±3°
0603-0001	±60°	±0.05%	±80°	±0.10%	100mv/°	4	-0.01%	0° ±3°
0603-0002	20°-140°CW	±0.10%	0°-160°CW	±0.15%	50mv/°	5	-0.015%	80°CW ±3°
0603-0003	20°-140°CW	±0.05%	0°-160°CW	±0.10%	50mv/°	5	-0.015%	80°CW ±3°
0603-0004	20°-140°CCW	±0.10%	0°-160°CCW	±0.15%	50mv/°	6	-0.01%	80°CCW ±3°
0603-0005	20°-140°CCW	±0.05%	0°-160°CCW	±0.10%	50mv/°	6	-0.01%	80°CCW ±3°

* Definition: Zero Base Terminal Average, expressed as a max % deviation of total range.
CW defined as clockwise direction of shaft rotation, when viewed from shaft end.

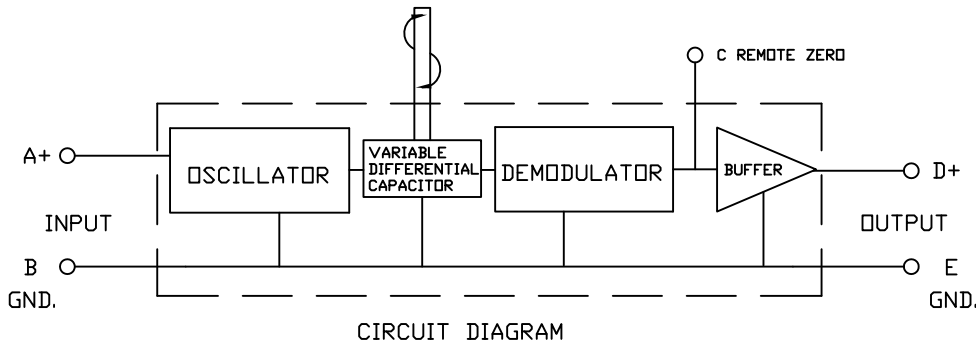
COMMON ELECTRICAL SPECIFICATIONS:

REPEATABILITY:	LESS THAN .01%
RESOLUTION:	INFINITE
EXCITATION VOLTAGE (VOLTAGE GREATER THAN 18V MAY DAMAGE UNIT):	15.00 V.D.C.
INPUT CURRENT:	30 MA MAX.
MAX ANGULAR VELOCITY:	1440°/SEC
OPTIONAL MAX ANGULAR VELOCITY (OUTPUT DOWN LESS THAN 2%):	18000°/SEC.
INTERNAL CARRIER FREQUENCY:	400KHz
RIPPLE MAX.:	20mv P/P 400KHz
ZERO ADJUSTMENT:	±3°
ZERO POSITIONS:	SEE OUTPUT CURVES
OUTPUT SHORT CIRCUIT PROTECTED:	YES
INPUT POLARITY PROTECTED:	YES
FREQUENCY RESPONSE:	> 1500 Hz
OUTPUT IMPEDANCE:	< 2 OHMS

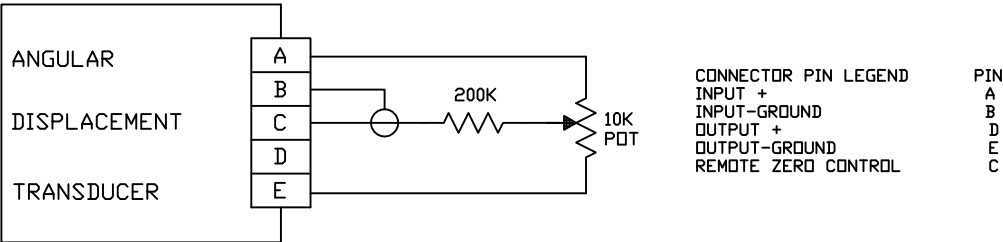
DIMENSIONAL DIAGRAM



*TO FIND THE CALIBRATED RANGE, LINE UP THE SLOT IN THE SHAFT TO THE DRILL HOLE IN THE FACE OF THE UNIT.



CIRCUIT DIAGRAM

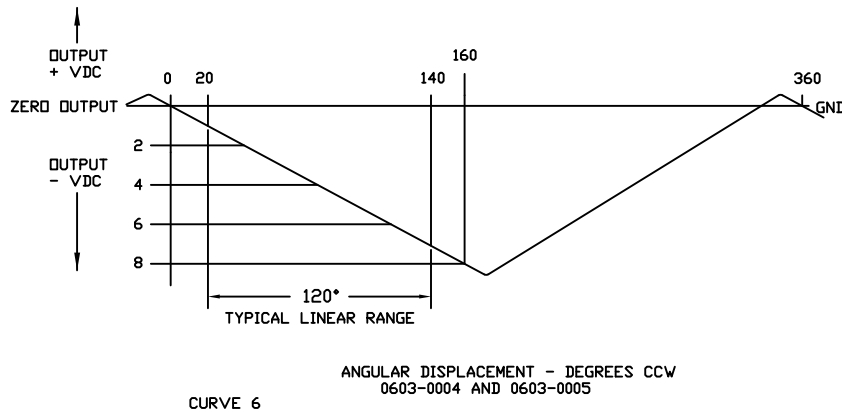
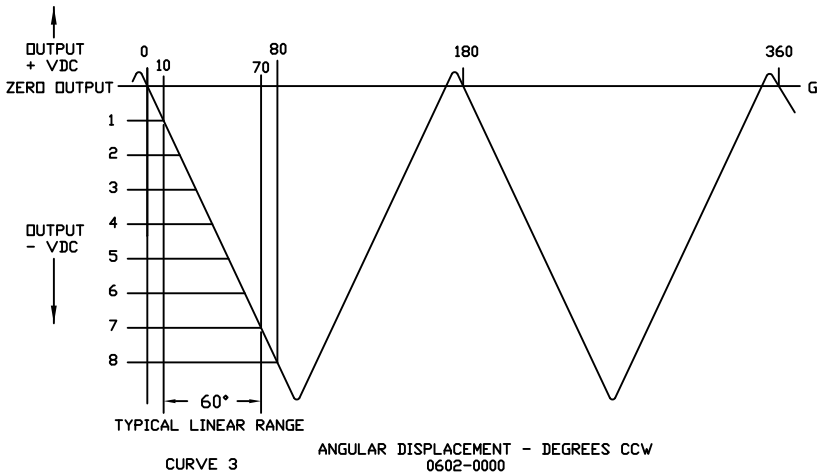
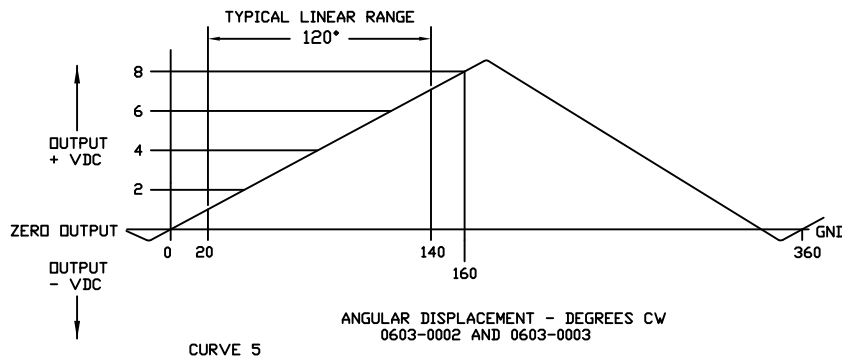
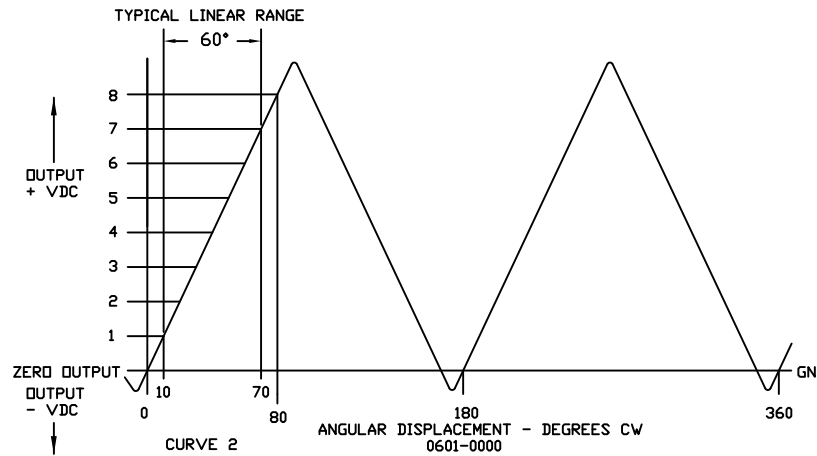
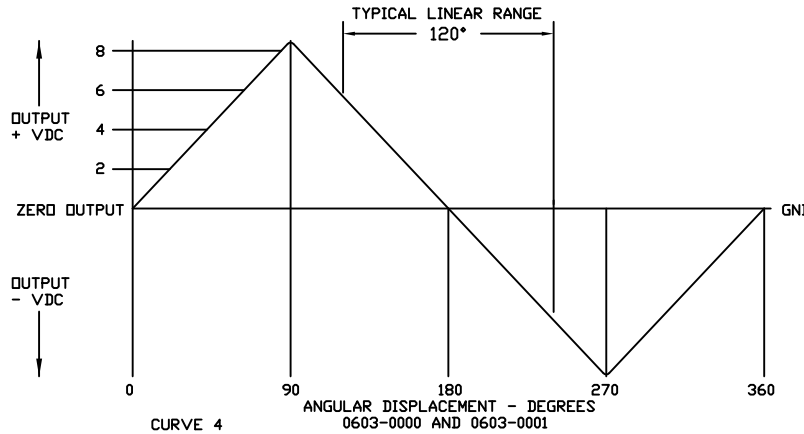
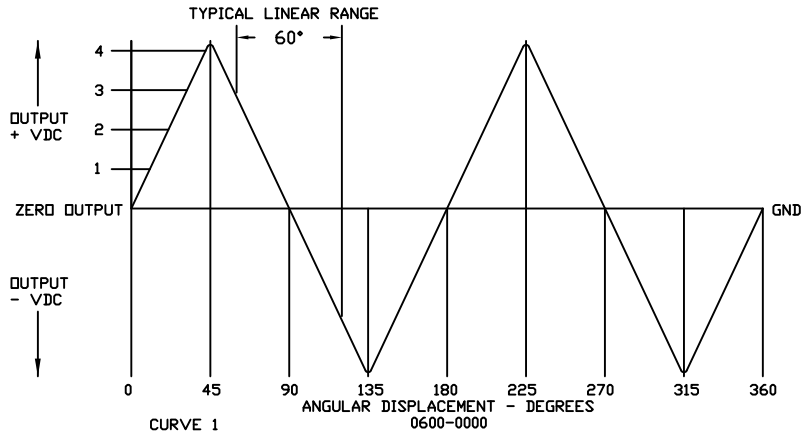


Remote Zero Connections

UNLESS operating in a noise-free environment the lead to pin C must be shielded as shown. The existing zero adjust potentiometer in the Angular Displacement Transducer must be rotated fully clockwise before the remote zero control can function correctly.

COMMON MECHANICAL SPECIFICATIONS:

DISPLACEMENT RANGE:	CONTINUOUS
TORQUE, MAX STARTING:	5.0 gm.cm.
OPTIONAL TORQUE, MAX STARTING:	0.5 gm.cm.
TORQUE MAX. RUNNING:	3.5 gm.cm.
MOMENT OF INERTIA, ROTOR:	6 gm.cm. ²
MAX. RADIAL LOAD, AT SHAFT END:	10 lbs
MAX. AXIAL LOAD:	7 lbs
OPERATING TEMPERATURE RANGE:	0°C to +75°C
OPTIONAL OPERATING TEMPERATURE RANGE:	-55°C to +125°C
STORAGE TEMPERATURE RANGE:	-55°C to +125°C
LIFE: LIMITED BY BEARINGS, eg.:	10 lbs, RADIAL LOAD AT 10 RPM, BEARING LIFE-17,000 hrs.
MOUNTING, GRAVITY INSENSITIVE:	ANY POSITION
NOMINAL WEIGHT:	12.5 oz., 355 gm.



MATERIAL

ALL MACH. SURF.
✓ MAX
UNLESS
OTHERWISE SPEC.

- UNLESS OTHERWISE SPEC. ALL THDS. TO UN CLASS 2A OR 2B EFFECTIVE ENGAGEMENT TO BE 75% #6 AND UP, 60% #5 AND DOWN.
- DIM. (↔) DENOTES OUT OF SCALE.
- ALL DIM. SHOWN ARE AFTER PLATING.
- EXCEPT AS NOTED, ALL DIMENSIONS ARE IN INCHES.

TRANS-TEK
INCORPORATED

Route 83 Ellington, Connecticut 06029

FINISH

TOLERANCE (UNLESS
OTHERWISE SPECIFIED)

X.X = ±.03
X.XX = ±.010
X.XXX = ±.005
ANGULAR = ±1°

SCALE
DO NOT SCALE DWG.

DR'N. BY / DATE

MAB

7-23-
2009

CHECKED BY

PRD.J. ENG. APP.

DEV. ENG. APP.

MFG. ENG. APP.

TOOLING

TITLE
SERIES 0600
CONTROL DRAWING

DWG.
SIZE
B

PART NO.
C012-0479

REV.

1ST. USED
ON

REVISIONS