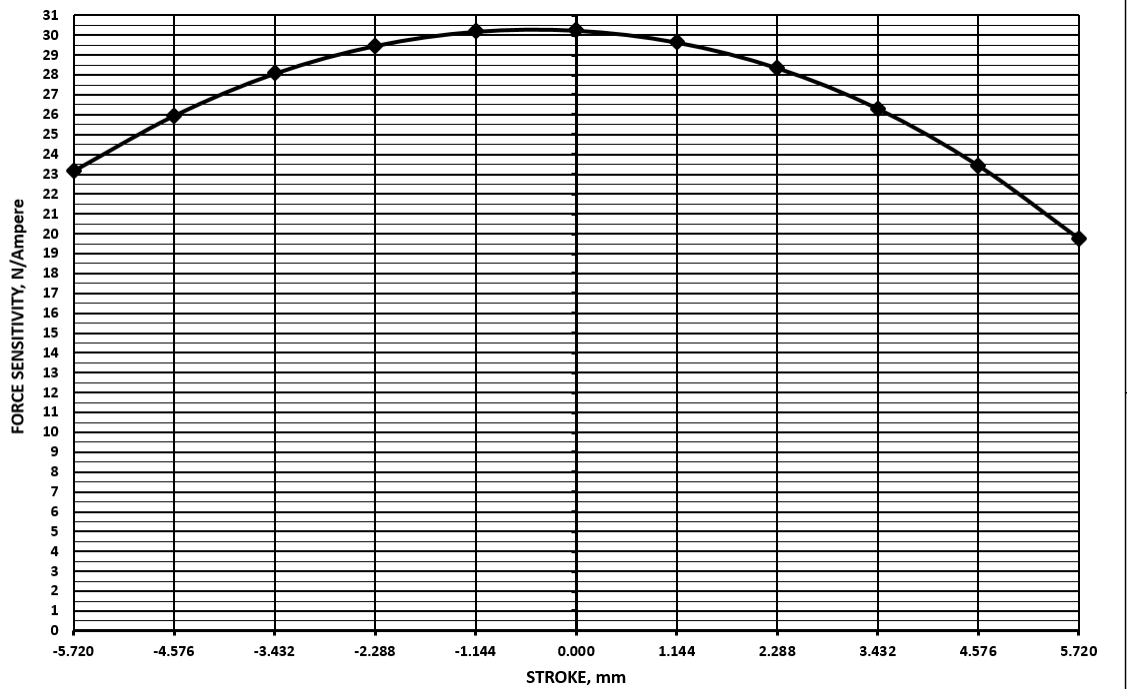
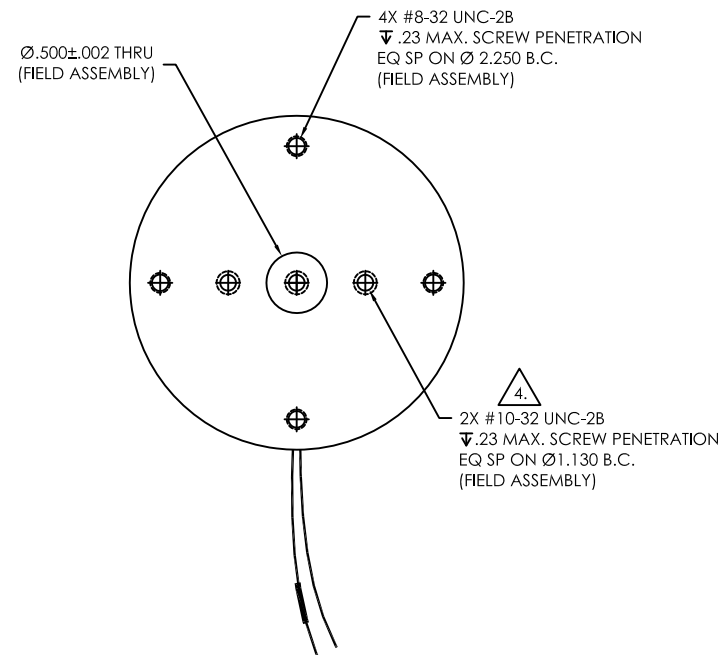
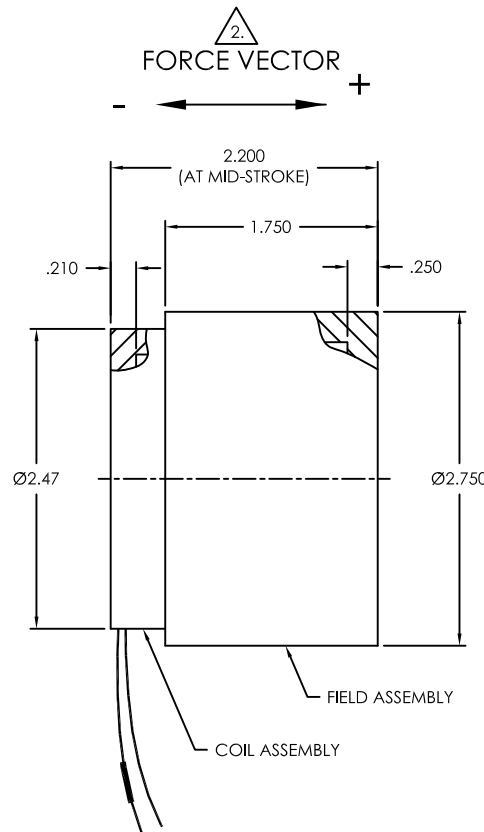
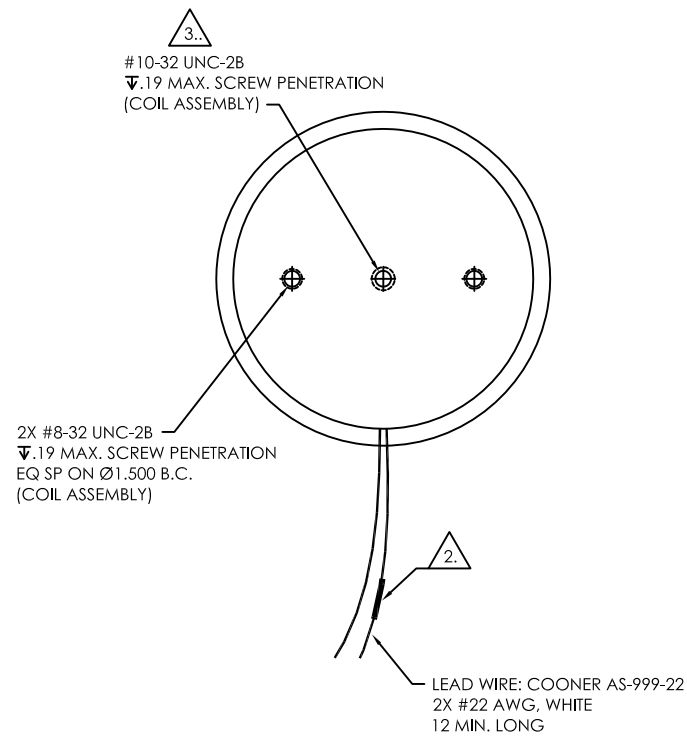


WINDING CONSTANTS *	UNITS	TOL	SYMBOL	WDG A
DC RESISTANCE	OHMS	±12.5%	R	4.8
VOLTAGE @ F <sub>p</sub>	VOLTS	NOMINAL	V <sub>p</sub>	42.4
CURRENT @ F <sub>p</sub>	AMPERES	NOMINAL	I <sub>p</sub>	8.82
FORCE SENSITIVITY	LB/AMP	±10%	K <sub>F</sub>	6.8
	N/AMP	±10%		30.25
BACK EMF CONSTANT	V/FT/SEC	±10%	K <sub>B</sub>	9.2
	V/M/SEC	±10%		30.25
INDUCTANCE ****	MILLI-HENRY	±15%	L	3.4

ACTUATOR PARAMETERS *	UNITS	SYMBOL	VALUE
PEAK FORCE **	LB	F <sub>P</sub>	60
	N		266.9
CONTINUOUS STALL FORCE ***	LB	F <sub>CS</sub>	18.6
	N		87.74
ACTUATOR CONSTANT	LB/√WATT	K <sub>A</sub>	3.10
	N/√WATT		13.79
ELECTRICAL TIME CONSTANT	MICRO-SEC	τ <sub>E</sub>	708.0
MECHANICAL TIME CONSTANT	MILLI-SEC	τ <sub>M</sub>	1.2
POWER I <sup>2</sup> R @ F <sub>p</sub>	WATTS	P <sub>P</sub>	374
STROKE	± INCHES		0.225
	± MM		5.72
CLEARANCE ON EACH SIDE OF COIL	IN		0.015
	MM		0.38
THERMAL RESISTANCE OF COIL IN STILL AIR	°C/WATT	Θ <sub>TH</sub>	2.4
MAX. ALLOWABLE COIL TEMP.	°C	TEMP	155
WEIGHT OF COIL ASSEMBLY	LB	WT <sub>C</sub>	0.50
	kg		0.23
WEIGHT OF FIELD ASSEMBLY	LB	WT <sub>F</sub>	2.0
	kg		0.91

\* AT MID-STROKE & 25°C AMBIENT TEMPERATURE  
 \*\* 10 SECONDS AT 25°C AMBIENT & 155°C COIL TEMP  
 \*\*\* 25°C AMBIENT & 155°C WINDING TEMPERATURE  
 \*\*\*\* MEASURED AT 1000 Hz



NOTES: UNLESS OTHERWISE SPECIFIED

- INCH DRAWING, DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY.
- A POSITIVE (+) VOLTAGE APPLIED TO THE MARKED LEAD WIRE WILL PRODUCE A FORCE ON THE COIL ASSEMBLY IN THE POSITIVE (+) DIRECTION.
- THIS FEATURE FOR BEI/KIMCO ASSEMBLY ONLY.

U. S. PATENT NO. 5,345,206

FOR REFERENCE ONLY, CHECK LATEST REVISION BEFORE USE.

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DATE	
ENGINEER	INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5-2009. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.
DATE	
APPROVED	TOLERANCES DECIMALS    ANGLES X.X ± 0.03    X.X° ± 0°30' X.XX ± 0.01 X.XXX ± 0.005
DATE	
APPROVED	DO NOT SCALE DRAWING    THIRD ANGLE PROJECTION
DATE	



529 PLEASANT STREET  
 P.O. BOX 2964  
 ATTLEBORO, MA 02703

TITLE  
 LINEAR ACTUATOR

SIZE DWG NO. REV.  
 C LA28-22-000A E

SCALE: NONE SHEET: 1 OF 1