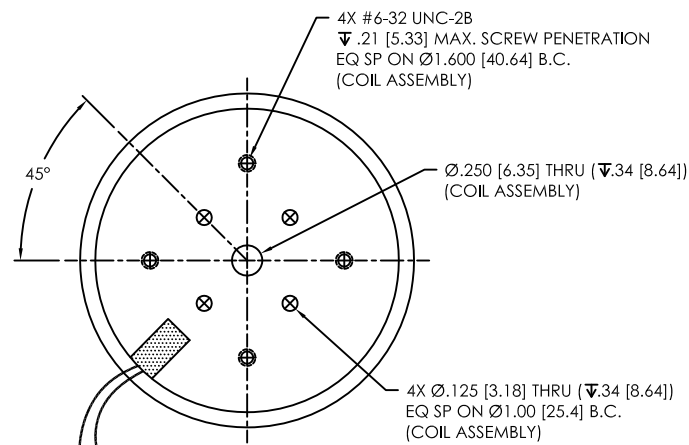


WINDING CONSTANTS *	UNITS	TOL	SYMBOL	WDG A
DC RESISTANCE	OHMS	±12.5%	R	2.4
VOLTAGE @ F _P	VOLTS	NOMINAL	V _P	30.0
CURRENT @ F _P	AMPERES	NOMINAL	I _P	12.5
FORCE SENSITIVITY	LB/AMP	±10%	K _F	4.8
	N/AMP	±10%		21.35
BACK EMF CONSTANT	V/FT/SEC	±10%	K _B	6.51
	V/M/SEC	±10%		21.36
INDUCTANCE ****	MILLI-HENRY	±15%	L	2.5

ACTUATOR PARAMETERS *	UNITS	SYMBOL	VALUE
PEAK FORCE **	LB	F _P	60
	N		266.89
CONTINUOUS STALL FORCE ***	LB	F _{CS}	19.4
	N		86.30
ACTUATOR CONSTANT	LB/√WATT	K _A	3.10
	N/√WATT		13.79
ELECTRICAL TIME CONSTANT	MICRO-SEC	τ _E	1.04
MECHANICAL TIME CONSTANT	MILLI-SEC	τ _M	2.86
POWER I ² R @ F _P	WATTS	P _P	375
STROKE	± INCHES		0.500
	± MM		12.7
CLEARANCE ON EACH SIDE OF COIL	IN		0.02
	MM		0.508
THERMAL RESISTANCE OF COIL *****	°C/WATT	θ _{TH}	2.2
MAX. ALLOWABLE COIL TEMP.	°C	TEMP	155
WEIGHT OF COIL ASSEMBLY	LB	WT _C	1.20
	kg		0.54
WEIGHT OF FIELD ASSEMBLY	LB	WT _F	2.16
	kg		0.98

* 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
 ***** ACTUATOR MOUNTED ON TEST FIXTURE,
 COIL AT MIDSTROKE, IN STILL AIR.

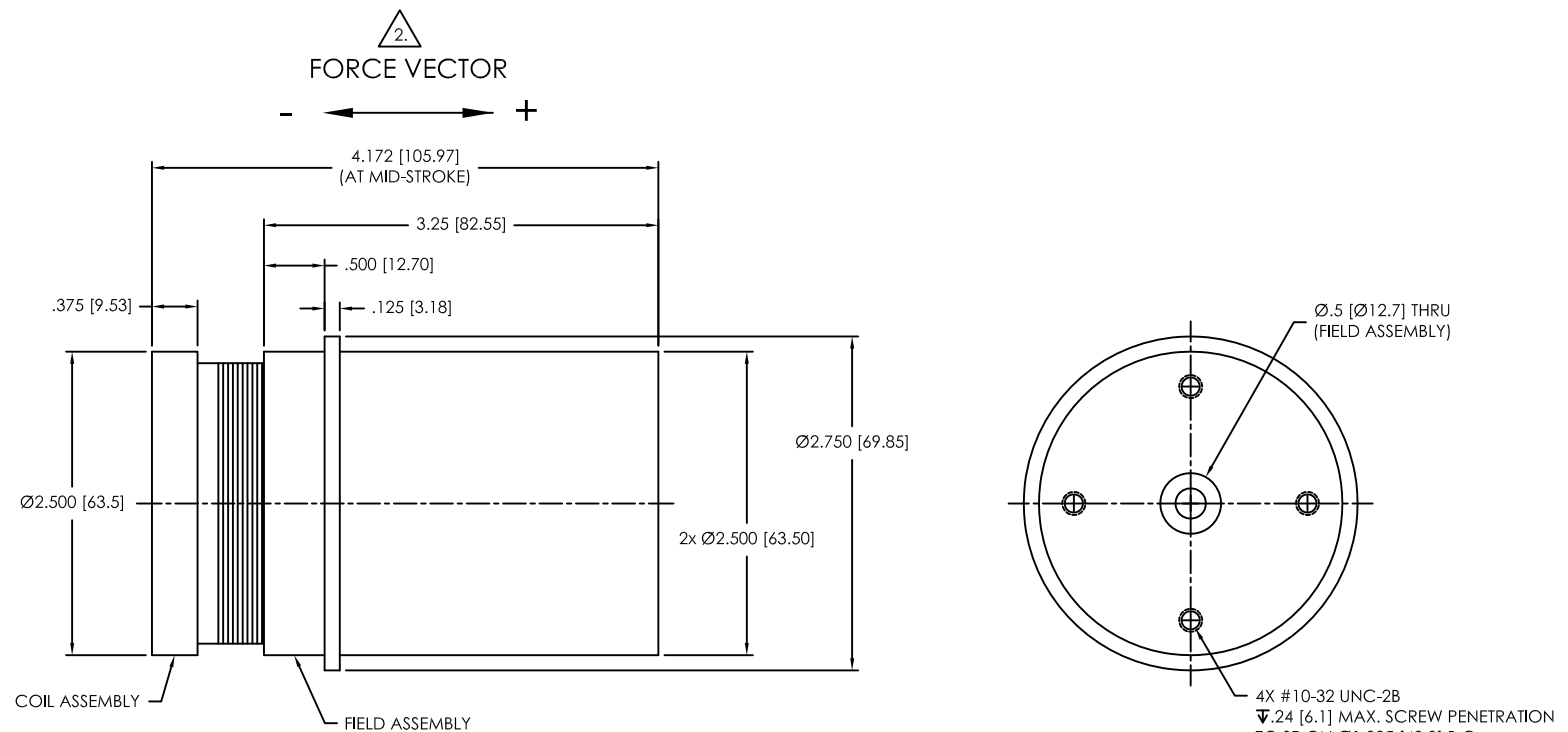


LEAD WIRE: COONER NEF18-41344
 2X #18 AWG
 12.0 [305] MIN. LONG
 (RED, BLACK)

NOTES: UNLESS OTHERWISE SPECIFIED

1. INCH DRAWING, DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS AND ARE FOR REFERENCE ONLY.

2. A POSITIVE (+) VOLTAGE APPLIED TO THE BLACK LEAD WIRE WILL PRODUCE A FORCE ON THE COIL ASSEMBLY IN THE POSITIVE (+) DIRECTION.



AUTOCAD

FOR REFERENCE ONLY, CHECK LATEST REVISION BEFORE USE.		529 PLEASANT STREET P.O. BOX 2964 ATTLEBORO, MA 02703	
DRAWN	DATE	ENGINEER	TITLE
DATE	APPROVED	DATE	APPROVED
DATE	APPROVED	DATE	APPROVED
DATE	APPROVED	DATE	APPROVED
DATE	APPROVED	DATE	APPROVED
DATE	APPROVED	DATE	APPROVED
DATE	APPROVED	DATE	APPROVED
DECIMALS ANGLES X.X ± 0.03 X.º ± 0°30' X.XX ± 0.01 X.XXX ± 0.005		TITLE LINEAR ACTUATOR	
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION	SIZE DWG NO. REV. C LA25-42-000A J
SCALE: NONE		SHEET: 1 OF 1	

