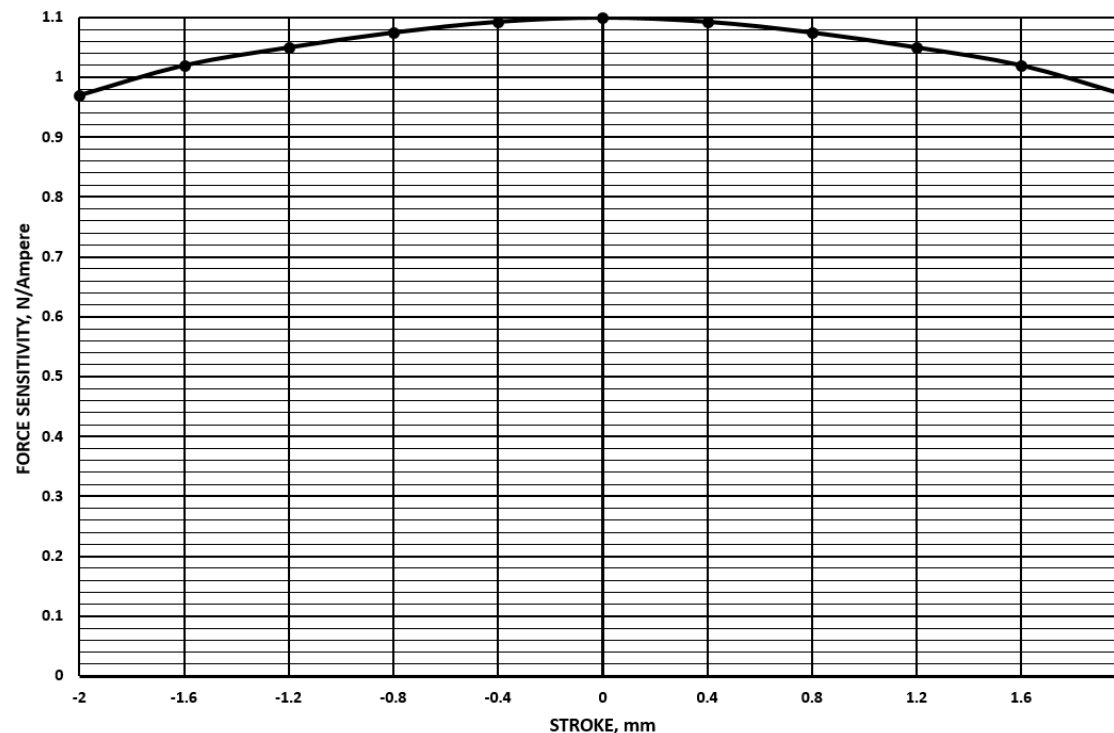
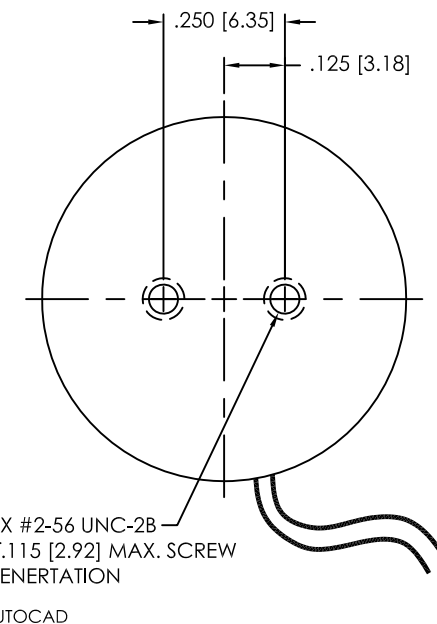
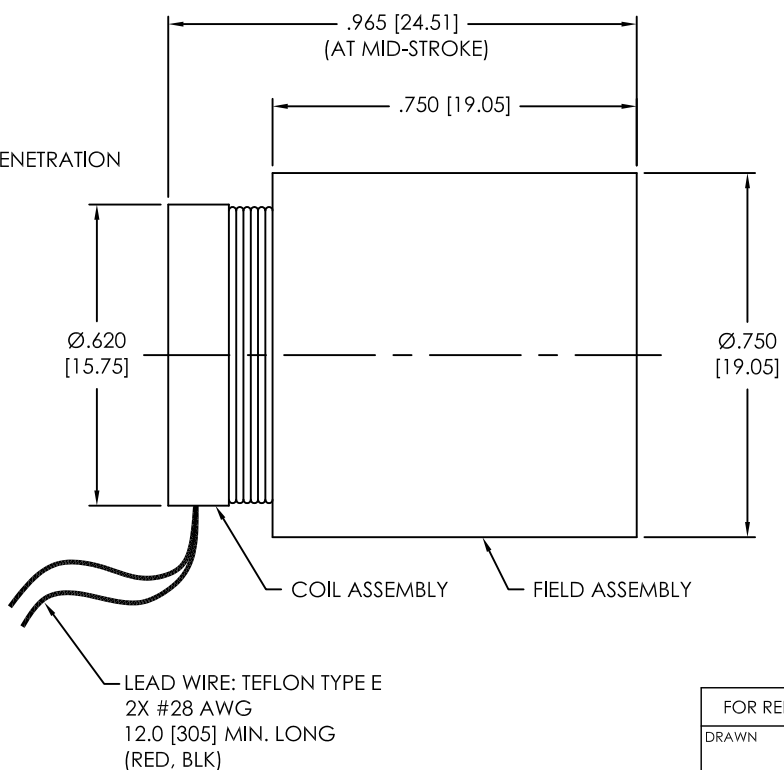
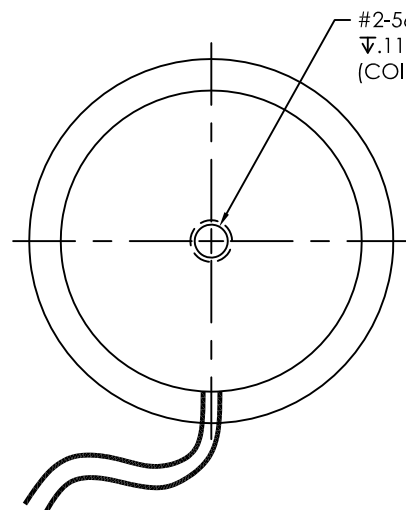


WINDING CONSTANTS *	UNITS	TOL	SYMBOL	WDG A	WDG B	WDG C
DC RESISTANCE	OHMS	±12.5%	R	1.28	4.05	10.03
VOLTAGE @ F _P	VOLTS	NOMINAL	V _P	7.8	13.9	22.0
CURRENT @ F _P	AMPERES	NOMINAL	I _P	6.08	3.42	2.19
FORCE SENSITIVITY	oz/AMP	±10%	K _F	3.95	7.02	10.97
	N/AMP	±10%		1.1	1.95	3.05
BACK EMF CONSTANT	V/FT/SEC	±10%	K _B	0.335	0.595	0.93
	V/M/SEC	±10%		1.1	1.95	3.05
INDUCTANCE ****	MICRO-HENRY	±30%	L	250	791	1959

ACTUATOR PARAMETERS *	UNITS	SYMBOL	VALUE
PEAK FORCE **	oz	F _P	24
	N		6.7
CONTINUOUS STALL FORCE ***	oz	F _{CS}	7.68
	N		2.13
ACTUATOR CONSTANT	oz / √WATT	K _A	3.78
	N / √WATT		1.05
ELECTRICAL TIME CONSTANT	MICRO-SEC	τ _E	59
MECHANICAL TIME CONSTANT	MILLI-SEC	τ _M	10.1
POWER I ² R @ F _P	WATTS	P _P	40.1
STROKE	± INCHES		0.080
	± MM		2.03
CLEARANCE ON EACH SIDE OF COIL	IN		0.015
	MM		0.38
THERMAL RESISTANCE OF COIL	°C/WATT	θ _{TH}	21
MAX. ALLOWABLE COIL TEMP.	°C	TEMP	155
WEIGHT OF COIL ASSEMBLY	oz	WT _C	0.265
	g		7.51
WEIGHT OF FIELD ASSEMBLY	oz	WT _F	0.95
	g		26.9

* MID-STROKE AND 25°C AMBIENT TEMPERATURE
 ** 10 SECONDS AT 25°C AMBIENT & 155°C COIL TEMP
 *** 25°C AMBIENT & 155°C COIL TEMPERATURE
 **** MEASURED AT 1000 HZ



2. FORCE VECTOR
 - ← → +

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 RED LEAD WILL PRODUCE A FORCE ON THE COIL ASSEMBLY IN THE POSITIVE (+) DIRECTION.

FOR REFERENCE ONLY, CHECK LATEST REVISION BEFORE USE.

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DATE	
ENGINEER	
APPROVED	
DATE	DO NOT SCALE DRAWING
APPROVED	
DATE	THIRD ANGLE PROJECTION

529 PLEASANT STREET
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 ATTLEBORO, MA 02703

Sensata Technologies

TITLE
LINEAR ACTUATOR

SIZE DWG NO. REV.
 C LA08-10-000-LTR G

SCALE: NONE SHEET: 1 OF 1

