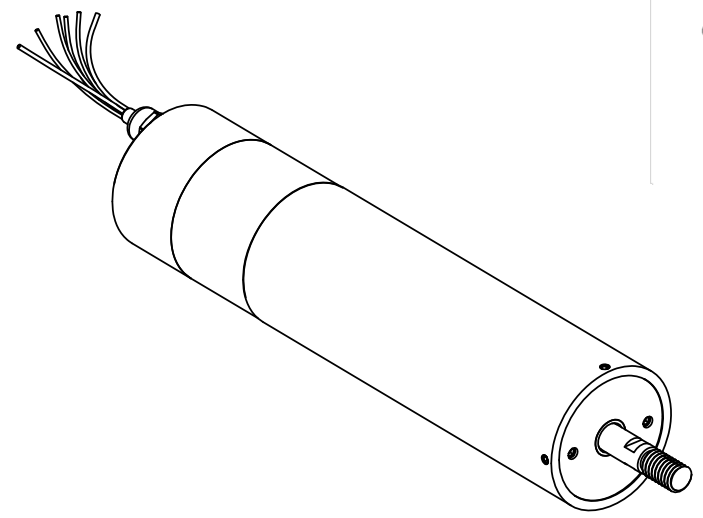


Winding Constants *	Units	Tol	Symbol	Wdg	A
DC Resistance	Ohms	± 12.5%	R		1.3
Voltage @ F _{PS}	Volts	Nominal	V _{PS}		14.04
Current @ F _{PS}	Amps	Nominal	I _{PS}		10.8
Current @ F _{CS}	Amps	Nominal	I _{CS}		4.2
Force Sensitivity @ F _{PS}	N/Amp	± 10%	K _{FPS}		7.74
	lb/Amp	± 10%			1.74
Force Sensitivity @ No-Load	N/Amp	± 10%	K _{FNL}		7.74
	lb/Amp	± 10%			1.74
Back EMF Constant	V/(m/sec)	± 10%	K _B		7.74
	V/(ft/sec)	± 10%			2.36
Inductance ****	milli-Henry	± 15%	L		0.24

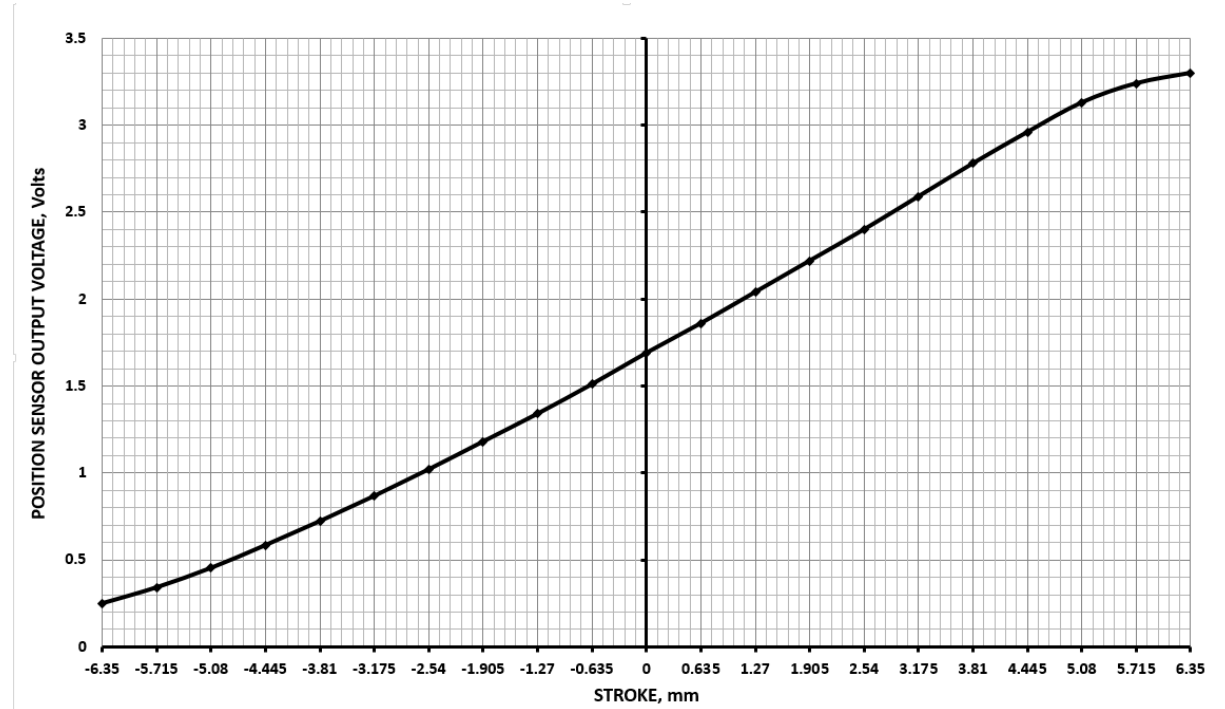
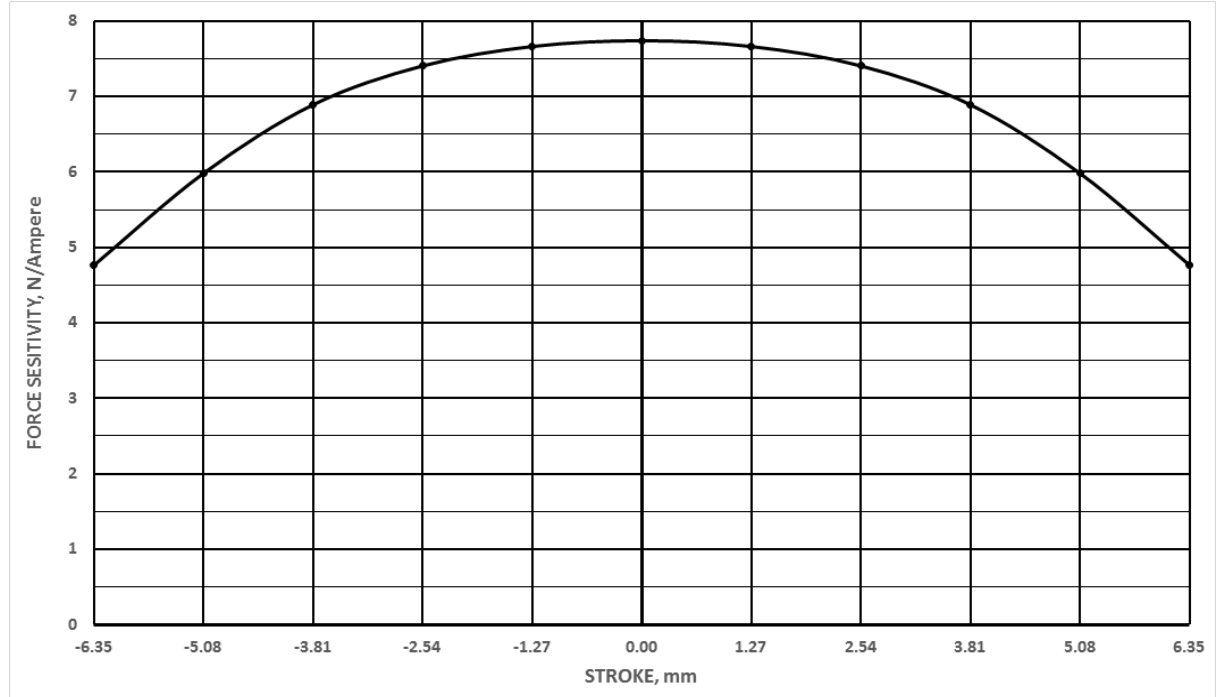
Linear Actuator Parameters *	Units	Symbol	Value
Peak Stall Force**	N	F _{PS}	82.48
	lb		18.54
Continuous Stall Force ***	N	F _{CS}	31.36
	lb		7.05
Friction Force****	N	F _F	1.11
	lb		0.25
Actuator Constant	N/v (Watt)	K _A	6.79
	lb/v (Watt)		1.53
Electrical Time Constant	milli-sec	τ _E	0.185
Mechanical Time Constant	milli-sec	τ _M	5.36
Theoretical Acceleration	m/s ²	a _T	333.9
	ft/s ²		1,096
Max Theoretical Frequency @ Full Stroke and Sinusoidal / Triangular Motion	Hz	f _{max}	36.5/40.6
Power I ² R @ F _{PS}	Watts	P _{PS}	151.6
Stroke	± mm	S _A	6.35
	± in		0.25
Moving Magnet Assembly Mass	kg	M _{CA}	0.247
	lb		0.545
Thermal Resistance of Coil	°C/Watt	Θ _{TH}	3.8
Maximum Allowable Coil Winding Temp	°C	T _W	155
Total Mass	kg	M _T	0.534
	lb		1.18

DISCLAIMERS
 * AT MID-STROKE & 25 °C AMBIENT TEMPERATURE
 ** 10 SEC AT 25°C AMBIENT & 155°C WINDING TEMPERATURE
 *** AT 25°C AMBIENT & 155°C WINDING TEMPERATURE
 **** MEASURED AT 1000 Hz
 ***** FOR EACH LOAD, F_L = K_F * I_L - F_F

POSITION SENSOR		
LEAD WIRE	IDENTIFICATION	DESCRIPTION
YELLOW	V _{CC}	INPUT VOLATAGE (5 VOLTS)
GRAY	GND	GROUND
BROWN	V _O	OUTPUT VOLTAGE
WHITE	V _{PP}	VOLTAGE FOR PROGRAMMING ONLY, NOT TO BE USED BY CUSTOMER



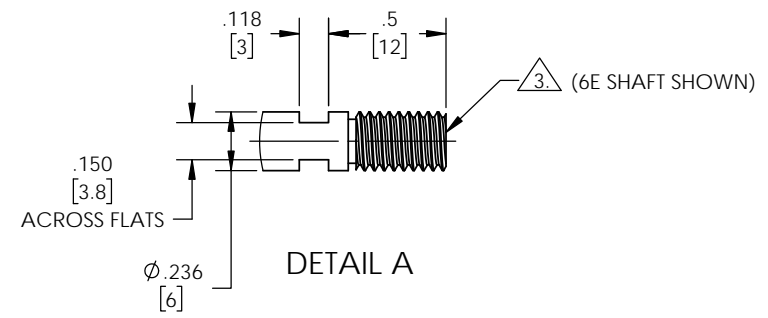
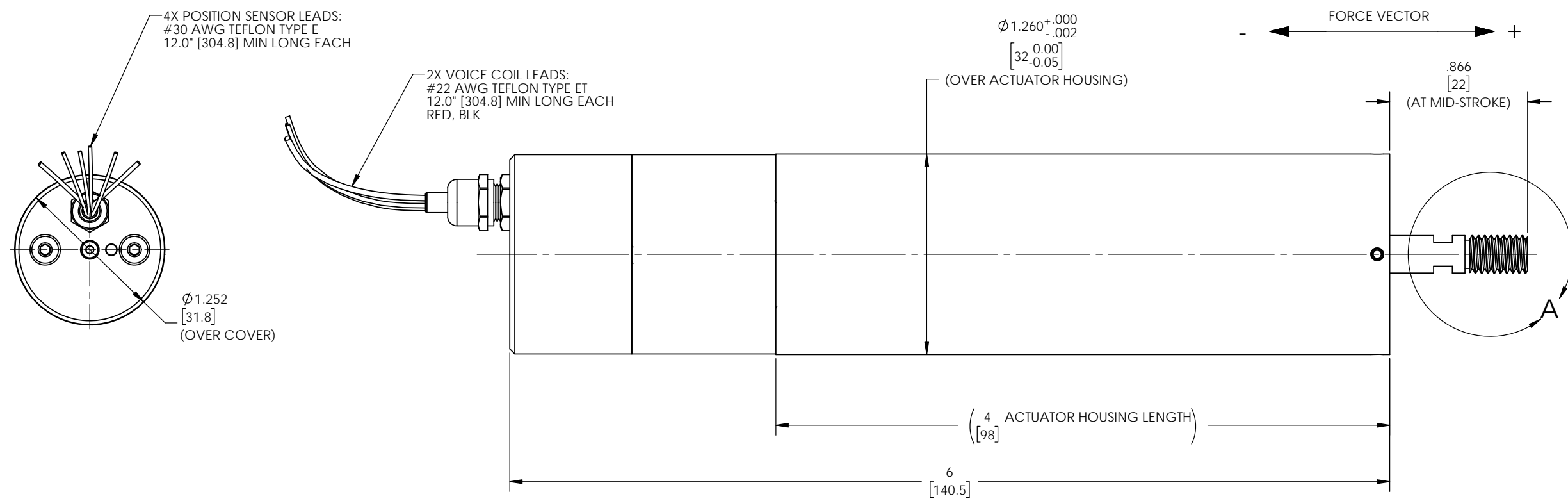
ZONE	REV.	REVISION DESCRIPTION	ECN NO.	DATE
	X3			



SOLIDWORKS

FOR REFERENCE ONLY, CHECK LATEST REVISION BEFORE USE.		 529 PLEASANT STREET P.O. BOX 2964 ATTLEBORO, MA 02703
DRAWN DATE ENGINEER	SENSATA TECHNOLOGIES PROPRIETARY AND CONFIDENTIAL. NEITHER THIS PRINT NOR THE INFORMATION CONTAINED HEREON IS TO BE USED AGAINST THE INTERESTS OF SENSATA TECHNOLOGIES OR AGAINST THE INTERESTS OF ANY OF ITS AFFILIATED COMPANIES OR WHOLLY OWNED SUBSIDIARIES.	
DATE APPROVED M. GODKIN DATE 05/31/19	INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5-2009. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES DECIMALS ANGLES X.X ± 0.03 X.X° ± 0°30' X.XX ± 0.01 X.XXX ± 0.005	TITLE LINEAR ACTUATOR SYSTEM
APPROVED DATE	DO NOT SCALE DRAWING THIRD ANGLE PROJECTION	SIZE DWG NO. REV. C LAS13-56-000A-P01-DASH X3
SCALE 1:1		SHEET 1 OF 2





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 (SHAFT) IN THE POSITIVE (+) DIRECTION.

3. -6E SHAFT CONFIGURATION SHOWN.

(DASH)	SHAFT END CONFIGURATION
6I	6mm Diameter, Internal Thread M4x0.7 X 10 mm Deep
6E	6mm Diameter, External Thread M6x1.0 X 10mm Long

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



SIZE	DWG NO.	REV.
C	LAS13-56-000A-P01-DASH	X3
SCALE	2:1	SOLIDWORKS SHEET 2 OF 2