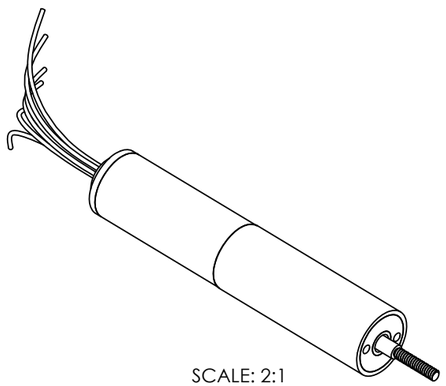
Winding Constants *	Units	Tol	Symbol	Wdg A
DC Resistance	Ohms	± 12.5%	R	5.1
Voltage @ F_{PS}	Volts	Nominal	V_{PS}	7.55
Current @ F_{PS}	Amps	Nominal	I_{PS}	1.48
Current @ Fcs	Amps	Nominal	Ics	0.59
Force Sensitivity @ F_{PS}	N/Amp	± 10%	K_{FPS}	1.89
	oz/Amp	± 10%		6.8
Force Sensitivity @ No-Load	N/Amp	± 10%	K_{FNL}	1.89
	oz/Amp	± 10%		6.8
Back EMF Constant	V/(m/sec)	± 10%	K_B	1.89
	V/(ft/sec)	± 10%		0.576
Inductance ****	milli-Henry	± 15%	L	0.22

Linear Actuator Parameters *	Units	Symbol	Value
Peak Stall Force**	N	F_{PS}	2.8
	oz		10.07
Continuous Stall Force ***	N	F_{CS}	1.11 (EST)
	oz		3.98 (EST)
Actuator Constant	N/sqrt (Watt)	K_A	2.94
	oz/sqrt (Watt)		0.66
Electrical Time Constant	milli-sec	τ_E	0.043
Mechanical Time Constant	milli-sec	τ_M	5.14
Theoretical Acceleration	m/s^2	a_T	525.0
	ft/s^2		1,722.4
Maximum Theoretical Frequency @ Full Stroke and Sinusoidal/Triangular Motion	Hz	f_{max}	81.5/90.6
Power I^2R @ F_{PS}	Watts	P_{PS}	11.2
Stroke, Maximum	± mm	S_{Amax}	2
	± in		0.079
Mass, Moving Field Assembly	g	M_{MA}	3.6
	oz		0.127
Thermal Resistance of Coil in still air	°C/Watt	Θ_{TH}	50 (EST)
Maximum Allowable Coil Winding Temp	°C	T_W	155
Mass, Total	g	M_T	12
	oz		0.423

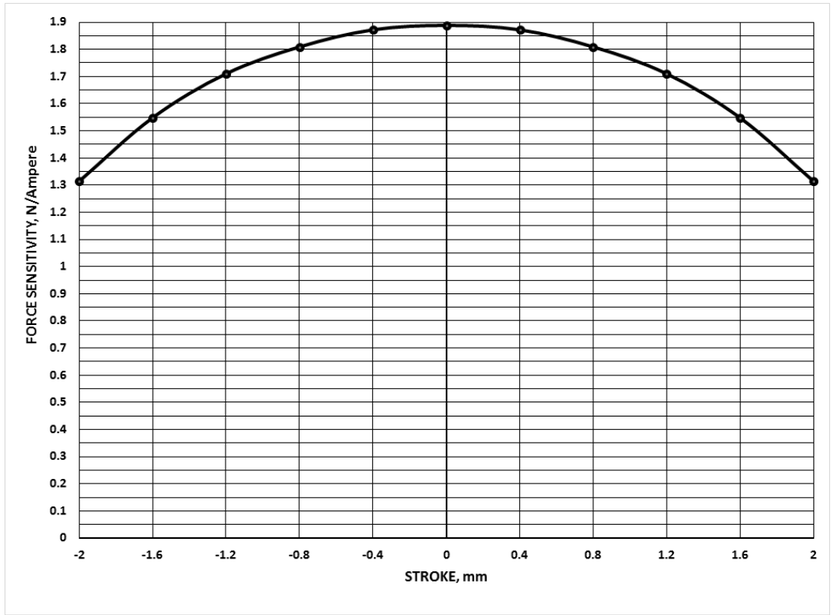
DISCLAIMERS
* AT MID-STROKE POSITION AND @ 25 C AMBIENT TEMPERATURE
** 10 SECONDS @ 25 C AMBIENT & 155 C COIL TEMPERATURE
*** @25 C AMBIENT & 155 C COIL TEMPERATURE
**** MEASURED AT 1000 Hz.

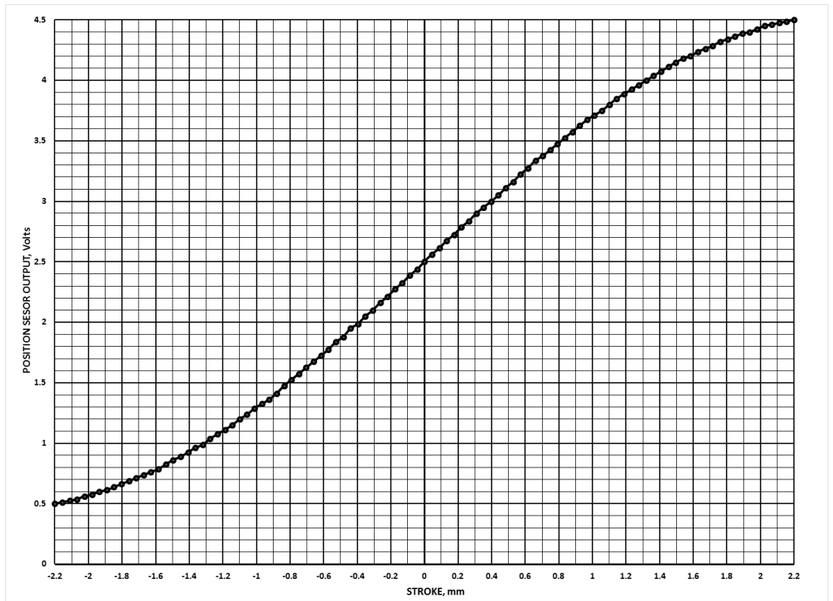
POSITION SENSOR		
LEAD WIRE	INDENTIFICATION	DESCRIPTION
YELLOW	V_{CC}	INPUT VOLATAGE (5 VOLTS)
GRAY	GND	GROUND
BROWN	V_O	OUTPUT VOLTAGE
WHITE	V_{PP}	VOLTAGE FOR PROGRAMMING ONLY, NOT TO BE USED BY CUSTOMER



SCALE: 2:1

ZONE	REV.	REVISION DESCRIPTION	ECN NO.	DATE
	X1			





RoHS

SOLIDWORKS

FOR REFERENCE ONLY, CHECK LATEST REVISION BEFORE USE.

DRAWN GUERRERO DATE 07/31/18
ENGINEER M. GODKIN DATE 08/03/18
APPROVED M. GODKIN DATE 08/03/18
APPROVED DATE

INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5-2009. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.
TOLERANCES
DECIMALS: X ± 0.8; X.X ± 0.25; X.XX ± 0.13
ANGLES: X.X° ± 0°30'

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

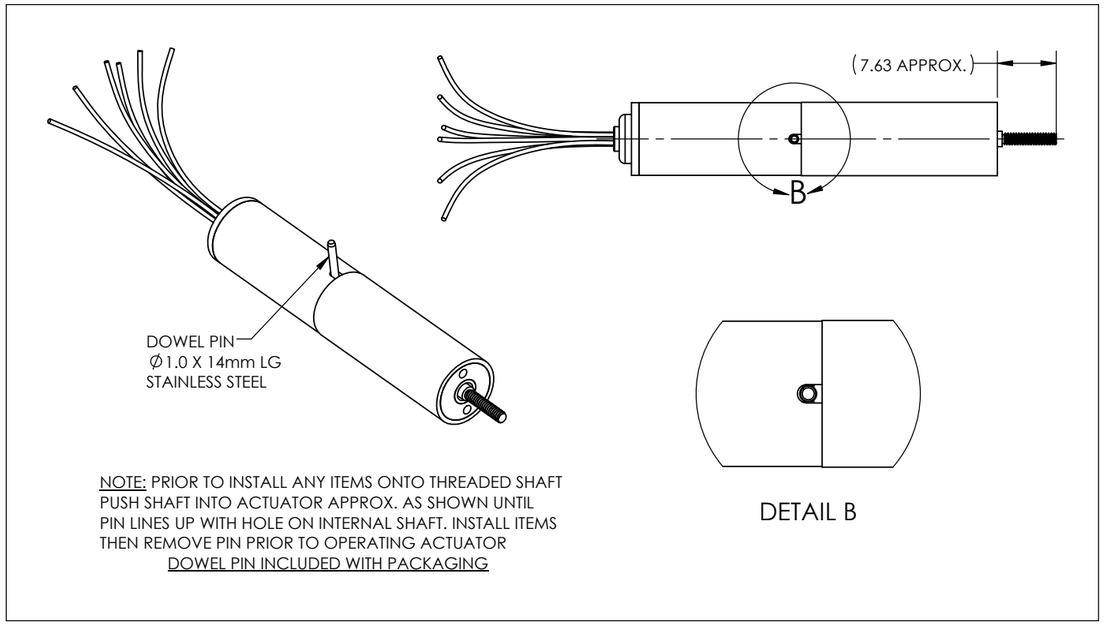
METRIC DRAWING

Sensata Technologies
BEI Kimco
1499 POINSETTIA AVENUE
SUITE 160
VISTA, CA. 92081

TITLE
LINEA ACTUATOR SYSTEM

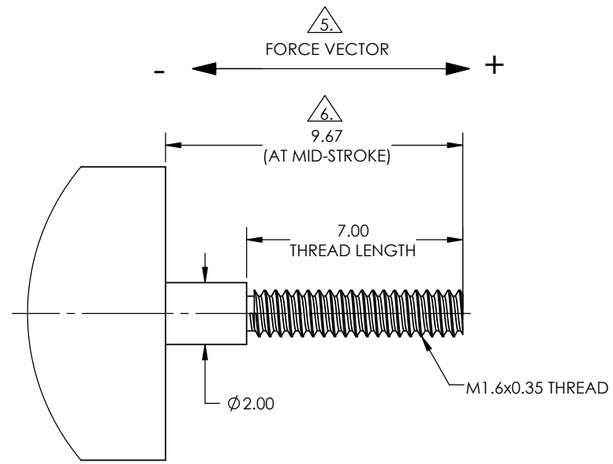
SIZE	DWG NO.	REV.
C	LAS04-19-000A	X1

SCALE 2:1 SHEET 1 OF 2

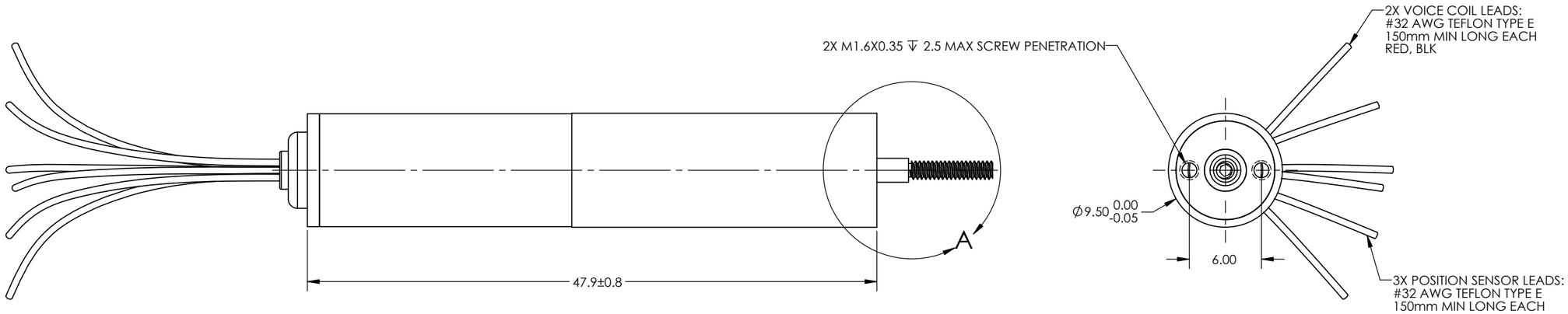


NOTE: PRIOR TO INSTALL ANY ITEMS ONTO THREADED SHAFT PUSH SHAFT INTO ACTUATOR APPROX. AS SHOWN UNTIL PIN LINES UP WITH HOLE ON INTERNAL SHAFT. INSTALL ITEMS THEN REMOVE PIN PRIOR TO OPERATING ACTUATOR
DOWEL PIN INCLUDED WITH PACKAGING

DETAIL B



DETAIL A



NOTES: UNLESS OTHERWISE SPECIFIED

1. INTERPRET DIMENSIONING AND TOLERANCING IAW ASME Y14.5M-1994.
2. INTERPRET DRAWING IAW ASME Y14.100.
3. ALL ABBREVIATIONS IAW ASME Y14.38.
4. METRIC DRAWING. DIMENSIONS IN BRACKETS [ ] ARE IN INCHES AND ARE FOR REFERENCE ONLY.
5. A POSITIVE (+) VOLTAGE APPLIED TO THE RED LEAD WILL PRODUCE A FORCE ON THE COIL ASSEMBLY IN THE POSITIVE (+) DIRECTION.
6. SHAFT SHOWN AT MID-STROKE POSTION. SYSTEM ALLOWS FOR 0.5 MECHANICAL OVER TRAVEL IN BOTH DIRECTIONS.

METRIC DRAWING

Sensata Technologies
BEI Kimco
1499 POINSETTIA AVENUE
SUITE 160
VISTA, CA. 92081

RoHS

SIZE	DWG NO.	REV.
C	LAS04-19-000A	X1
SCALE 2:1	SOLIDWORKS	SHEET 2 OF 2