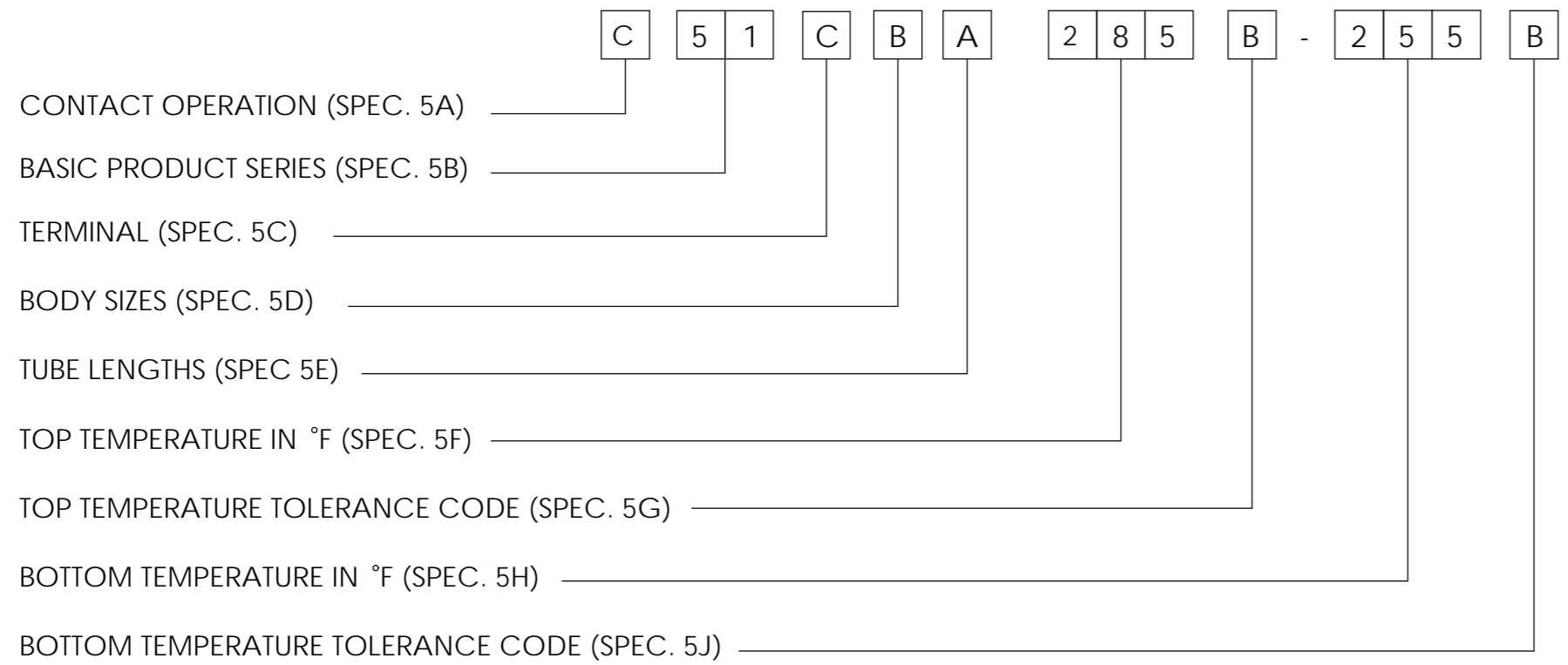


ZONE	REV.	REVISION DESCRIPTION	ECN NO.	DATE
	A	INITIAL RELEASE FOR PRODUCTION; RF	ECO-141979	21-APR-2017

EXAMPLE PART NUMBER
(SEE EXPLANATION SPECIFICATION NUMBER 5)



SPECIFICATIONS

- LONG TERM TEMPERATURE EXPOSURE LIMIT: -65 °F TO +625 °F (-53.6 °C TO +273 °C)
- SHOCK: 75 G 6 MS DURATION (SAWTOOTH)
- VIBRATION: 0.06 DA, 10-55 HZ, 20 G 55-2000 HZ
- CONTACT RATING* FOR 100,000 LIFE CYCLES:
 - A: 3 AMPERES RESISTIVE, 32VDC/120 VAC 60HZ
 - B: 1.5 AMPERES 240 VAC 60HZ
 - C: 125 VA PILOT DUTY TO 240 VAC 60HZ
- DIELECTRIC STRENGTH: 1480 V RMS 60 HZ TERMINALS TO CASE FOR ONE MIN.
- INSULATION RESISTANCE: 50 MEGAOHMS MIN AT 500 VDC
- THERMAL SHOCK: MIL-STD-202 METHOD 107 TEST CONDITION B
- PRESSURE EXPOSURE LIMIT: TUBE WILL WITHSTAND 1500 PSI OF PRESSURE

*THE 5100 SERIES THERMOSTATS HAS BEEN RECOGNIZED BY SAFETY AGENCIES, INCLUDING UL, CANADIAN-UL. AGENCY RATINGS ARE PRESENTED AS A GENERAL GUIDE. HOWEVER, THE TEMPERATURE SETTINGS, MECHANICAL, ELECTRICAL, THERMAL, AND ENVIRONMENTAL CONDITIONS OF THE SPECIFIC APPLICATION MAY DIFFER SIGNIFICANTLY FROM AGENCY TEST CONDITIONS. THEREFORE, THE USER MUST NOT RELY SOLELY ON THE AGENCY RATINGS PRESENTED HERE, BUT MUST PERFORM ITS OWN TESTING OF THE PRODUCT TO CONFIRM THAT THE THERMOSTAT SELECTED WILL OPERATE AS INTENDED OVER THE USEFUL DESIGN LIFE OF THE USER'S APPLICATIONS.

NOTES:

- USERS ARE SOLELY RESPONSIBLE FOR DESIGN APPLICATION AND FUNCTION OF THE END USE PRODUCT. USERS MUST EVALUATE THE SUITABILITY OF THESE DEVICES TO THEIR APPLICATION WITH RESPECT TO TEMPERATURE SETTINGS, MECHANICAL CYCLE LIFE, ELECTRICAL LOADING AND ENVIRONMENTAL CONDITIONS.
- DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
- DISPLAYED IN THIS ENVELOPE DRAWING IS TERMINAL SELECTION "A", BODY SIZE "A", AND TUBE LENGTH "A".
- SINGLE POLE SINGLE THROW SNAP ACTION THERMOSTAT (CASE ISOLATED). DEVICE IS HERMETICALLY SEALED OF ALL WELDED CONSTRUCTION
- EXPLANATION OF PART NUMBER SELECTION:
 - A. CONTACT OPERATION: O=OPEN ON RISE; C=CLOSE ON RISE
 - B. BASIC SERIES NUMBER: CODE 51 FOR ALL VARIATIONS OF THIS THERMOSTAT
 - C. TERMINAL SELECTION: CHOOSE FROM CODES SHOWN
 - D. BODY SIZE SELECTION: CHOOSE FROM CODES SHOWN
 - E. TUBE LENGTH SELECTION: CHOOSE FROM CODES SHOWN
 - F. TOP TEMPERATURE (IN DEGREES F): SELECT ANY TEMPERATURE IN THE RANGE 15 °F TO 550 °F
 - G. TOP TEMPERATURE TOLERANCE: CHOOSE FROM THE CODES IN THE TABLE 2; HOWEVER A TOLERANCE MORE RESTRICTIVE THAN THE TOLERANCES IN TABLE 1 CAN NOT BE APPLIED
 - H. BOTTOM TEMPERATURE (IN DEGREES F): THE BOTTOM OR RESET TEMPERATURE IS OBTAINED BY SUBTRACTING THE STANDARD NOMINAL DIFFERENTIAL OF THE APPLICABLE RANGE (TABLE 1) FROM THE TEMPERATURE SELECTED IN STEP F
 - J. BOTTOM TEMPERATURE TOLERANCE: CHOOSE FROM THE CODES IN TABLE 2, APPLYING THE SAME RESTRICTIONS USED IN SELECTING THE TOP TEMPERATURE TOLERANCE IN STEP G
- CREEP: ALL CONTACT OPERATION (BOTH CLOSING AND OPENING) MUST OCCUR SIMULTANEOUS WITH SNAP OF DISC
- MATERIALS:
 - BODY: STAINLESS STEEL
 - TUBE: STAINLESS STEEL
 - HEADER: C.R. STEEL, NICKEL PLATED WITH COMPRESSION GLASS SEAL
 - DISC: BIMETAL
 - POTTING: MYLAR SLEEVE, EPOXY FILL (BLACK)
 - TERMINALS: STEEL, PLATED OR STAINLESS
 - CONTACTS: FINE SILVER

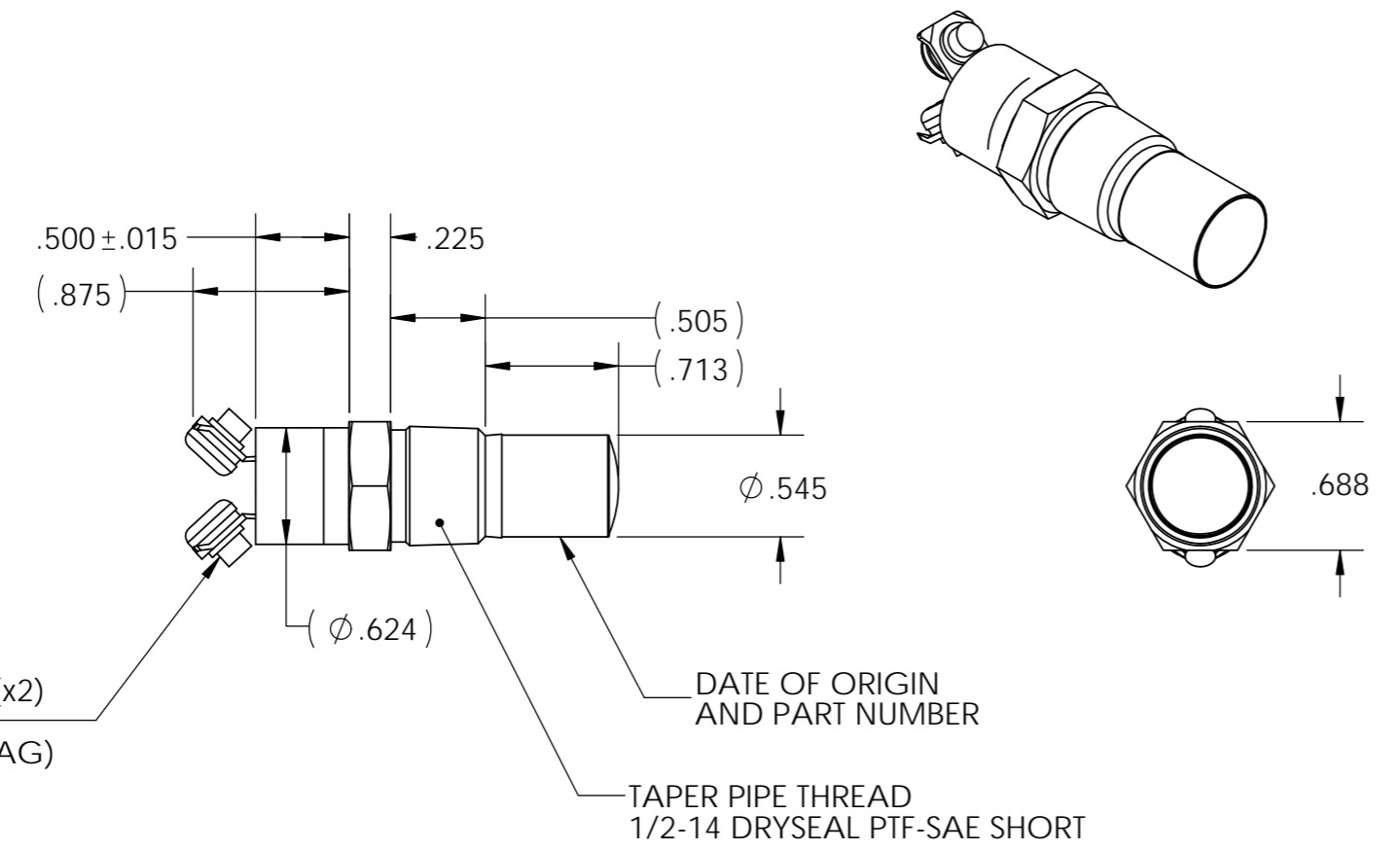
TABLE 1

	°F	°C	°F	°C	°F	°C	°F	°C
TEMPERATURE SETTING	+15	-9.4	+251	+121.6	+351	+177.2	+451	+232.8
	TO	TO	TO	TO	TO	TO	TO	TO
STANDARD TOLERANCE	±5	±2.8	±8	±4.4	±10	±5.6	±20	±11.1
	STANDARD NOMINAL DIFFERENTIAL	20	11.1	30	16.7	40	22.2	50

TABLE 2

TEMPERATURE TOLERANCE CODE FOR PART NUMBER SELECTIONS

CODE	TOLERANCES															
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	X	Y
±°F	5	8	10	20	3	4	6	7	9	12	15	18	25	30	MAX.	MIN.
±°C	2.8	4.4	20	11.1	1.7	2.2	3.3	3.9	5.0	6.7	8.3	10.0	13.9	16.7	MAX.	MIN.



FOR REFERENCE ONLY, CHECK LATEST REVISION BEFORE USE. PARTS MADE TO THIS PRINT MUST CONFORM TO E9898 REV. E.

DRAWN R. FERNANDES DATE 21-APR-2017 ENGINEER B. CURRIER DATE 21-APR-2017 APPROVED D. MULLEN DATE 21-APR-2017 APPROVED R. RIVERA DATE 21-APR-2017	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. INTERPRET DIMENSIONING AND TOLERANCING PER ASME Y14.5-2009. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES DECIMALS X.XXX ± 0.005 ANGLES DO NOT SCALE DRAWING THIRD ANGLE PROJECTION	529 PLEASANT STREET P.O. BOX 2964 ATTLEBORO, MA 02703 TITLE 5100 SERIES AAA CONFIGURATION ENVELOPE DRAWING SIZE DWG NO. REV. A2 D51R0002 A SCALE 1:1 SOLIDWORKS SHEET 1 OF 1
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