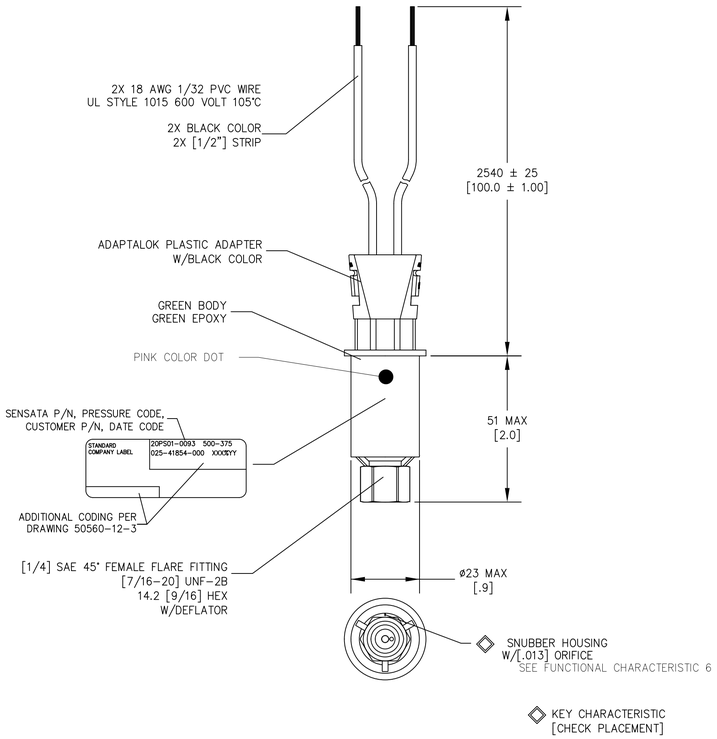
ZONE	REV.	REVISION DESCRIPTION	ECN NO.	DATE
C7	D	PRESSURE CODE WAS "585-440"; RTB	ECO-396405	28-OCT-2020



FUNCTIONAL CHARACTERISTICS (SEE NOTE 1):

1. LOGIC:
   SINGLE POLE, SINGLE THROW (SPST)
   CIRCUITRY NORMALLY CLOSED – OPEN ON PRESSURE RISE, CLOSE ON FALL

2. CALIBRATION:

ACTUATION PRESSURE:	500 ± 10 PSIG
RELEASE PRESSURE:	375 ± 10 PSIG
PROOF PRESSURE:	800 PSIG
BURST PRESSURE:	5000 PSIG (RATED)

   ACCURACY:
   EXPECTED ACCURACY THROUGHOUT STATED TEMPERATURE LIMITS IS +/– 10% OF INITIAL CALIBRATION. PRODUCT WILL ALSO EXPERIENCE ADDITIONAL CALIBRATION SHIFT OVER LIFE WITH RESPECT TO MECHANICAL CYCLING, OVER PRESSURE AND OTHER APPLICATION RELATED FACTORS. CUSTOMER TO VALIDATE PERFORMANCE IN SYSTEM TO ACCOUNT FOR PERFORMANCE CHANGES DURING USE.

3. ELECTRICAL CHARACTERISTICS:
   CONTACT MATERIAL: SILVER

   120 VAC – 5.8 FLA 34.8 LRA
   240 VAC – 2.9 FLA 15.0 LRA
   120/277 VAC – 375 VA PILOT DUTY
   24 VAC – 125 VA PILOT DUTY

   OTHER LOADS MAY BE APPLICABLE BY SIMILARITY UNDER SA995.

4. DIELECTRIC STRENGTH:
   TERMINAL TO TERMINAL: 600 VRMS, <100 µA CURRENT LEAKAGE (SEE NOTE 4)
   TERMINAL TO FITTING: 600 VRMS, <100 µA CURRENT LEAKAGE (SEE NOTE 4)

   TERMINAL TO FITTING: 1480 VRMS (RATED PER SA995)

5. MATERIALS:
   BODY: PLASTIC
   WETTED COMPONENTS: BRASS, STAINLESS STEEL

   ELECTRICAL CONNECTION: SEE DRAWING

6. ENDURANCE (SEE NOTE 5):
   ELECTRO MECHANICAL (RATED): 100,000 CYCLES PER SA995

   DAMPING PROVISIONS: ORIFICE, DIAMETER 0.013 ± 0.005 IN

7. ENVIRONMENTAL ENVELOPES:

   OPERATIONAL CONDITIONS:

AMBIENT TEMPERATURE:	-29° C TO 80° C	[-20° F TO 176° F]
FLUID TEMPERATURE:	-54° C TO 135° C	[-65° F TO 275° F]
RELATIVE HUMIDITY:	95% MAX (SEE NOTE 4)	

   REFER TO NOTE 5 FOR THE FOLLOWING ENVIRONMENTAL CHARACTERISTICS:

LIQUID IMMERSION:	NOT RECOMMENDED
SALT ENVIRONMENT:	70 HRS @ 5% SALT PER ASTM B117 (FUNCTIONALITY ONLY) BY SIMILARITY WITHOUT CONDUIT ADAPTER (EL10001245).
CHEMICAL RESISTANCE:	IN GENERAL: PAINTS, CLEANING SOLUTIONS, OILS, FUELS, AND LUBRICANTS. SPECIFIC CHEMICALS LISTED IN EL10001245.

   VIBRATION (SEE NOTE 6):

A.	RANDOM:	14.88 GRMS MAX, 3-AXIS @ 0 TO 2 KHZ
B.	DROP:	1 METER, 3-AXIS (FUNCTIONAL POST DROP ONLY)
C.	INSTALLATION SHOCK:	WIRE PULL, DROP HEIGHT = CONNECTOR LENGTH
D.	PARTICLE IMPACT:	3.8 CM STEEL BALL @ 60 CM

8. AGENCY LISTINGS:

UL	FILE SA995 GUIDE SDFY2
UL (CANADA)	FILE SA995 GUIDE SDFY8
PED EN 12263	MODULE B&D
ENEC	EN60730, EN60730-1, EN60730-2-6

9. APPLICATION:
   CUSTOMER: YORK INT'L
   CUSTOMER P/N: 025 41854 000
   FUNCTION: PRESSURE SWITCH

   SWITCH INSTALLATION: PER CUSTOMER SPECIFIED PROCEEDURES

   DO NOT APPLY TORQUE TO BODY

   DO NOT APPLY LATERAL LOADS TO POTTING CUP,SWITCH BODY OR OTHER RIGID COMPONENTS. CALIBRATION SHIFT OR DEGREDATION OF PERFORMANCE MAY RESULT.

NOTES:

1. FUNCTIONAL CHARACTERISTICS ARE DESCRIBED UNDER THE FOLLOWING CONDITIONS:
   AMBIENT TEMPERATURE: 25° C
   AMBIENT PRESSURE: 14.7 PSIA (0.0 PSIG)
   AMBIENT RELATIVE HUMIDITY: NOT SPECIFIED.

2. VALIDATION TESTING DONE BY SENSATA TO MEET APPLICABLE SENSATA SPECIFICATIONS AND APPLICABLE AGENCY REQUIREMENTS. CUSTOMER IS RESPONSIBLE FOR VALIDATING THE PRESSURE SWITCH TO ACTUAL APPLICATION/VEHICLE ENVIRONMENT AND ALL USER CONDITIONS.

* INDICATES CHARACTERISTIC SPECIFICALLY TESTED TO SPECIFIC CUSTOMER REQUIREMENTS BY SENSATA. SPECIFIC SECTIONS OF CUSTOMER REQUIREMENTS AXE16240 AND JDQ 53.3 ARE IDENTIFIED WITHIN VALIDATION PLAN AND REPORT. SAMPLES USED FOR VALIDATION TESTING ARE CONSIDERED TO BE REPRESENTATIVE OF PRODUCTION PROCESSES BUT MAY NOT CAPTURE LOT TO LOT VARIATION. ALL OTHER CHARACTERISTICS ARE TO BE CONSIDERED DESIGN CHARACTERISTICS DETERMINED BY SIMILARITY TO OTHER PART NUMBERS AND USED FOR REFERENCE ONLY.

3. FLUID VISCOSITY CHANGES DUE TO TEMPERATURE WILL AFFECT SWITCH RESPONSE TIME & POTENTIAL FOR CONTACT CHATTER DURING OPEN/CLOSE EVENTS (EL10001245).

4. AS TESTED PER EL10001245 UNDER COMBINED LOADING CONDITIONS VARYING TEMPERATURE, HUMIDITY, & PRESSURE CYCLES. APPLICATION OF THE PRESSURE SWITCH BELOW DEW-POINT MAY RESULT IN CONDENSATION FORMING WITHIN THE DEVICE AND IS NOT RECOMMENDED.

5. ENVIRONMENTAL ENVELOPE RATINGS BASED ON TESTING OF SIMILAR PART NUMBERS WITHOUT CONDUIT ADAPATER. SENSATA TECHNOLOGIES (SENSATA) HAS NOT QUALIFIED THIS DEVICE FOR USE IN MEDICAL APPLICATIONS. NOT RECOMMENDED FOR USE IN VOLATILE, EXPLOSIVE, OR COMBUSTIBLE ATMOSPHERES OR IN ATMOSPHERES THAT COULD HAVE THE POTENTIAL OF BECOMING IGNITED.

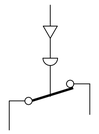
6. MECHANICAL VIBRATION LOADS SPECIFIED DO NOT GUARD AGAINST CONTACT CHATTER SPECIFICALLY. EXCESSIVE VIBRATION LEVELS INDUCED BY MOUNTING LOCATIONS, ENGINE VIBRATION, COMPRESSOR VIBRATIONS, OR OTHER INDUCED MECHANICAL SHOCK MAY EXCEED THE EXPOSURE LEVELS TESTED IN THE TEST LAB AND DEFINED ABOVE ON THIS PRINT. SEE EL10001245 FOR SPECIFIC TEST CONDITIONS.

7. IF PRODUCT IS EXPOSED TO TEMPERATURES OR ELECTRICAL LOADS EXCEEDING LIMITS DEFINED HEREIN, PRODUCT PERFORMANCE AND LIFE REQUIREMENTS MAY BE ADVERSELY AFFECTED.

8. SENSATA TECHNOLOGIES ASSUMES NO RESPONSIBILITY FOR CUSTOMERS' PRODUCT DESIGNS OR APPLICATIONS. USERS MUST DETERMINE THE SUITABILITY OF THE SENSATA DEVICE DESCRIBED IN THIS DOCUMENT FOR THEIR APPLICATION, INCLUDING THE LEVEL OF RELIABILITY REQUIRED. MANY FACTORS BEYOND SENSATA'S CONTROL CAN AFFECT THE USE AND PERFORMANCE OF A SENSATA PRODUCT IN A PARTICULAR APPLICATION, INCLUDING THE CONDITIONS UNDER WHICH THE PRODUCT IS USED AND THE TIME AND ENVIRONMENTAL CONDITIONS IN WHICH THE PRODUCT IS EXPECTED TO PERFORM. AS THESE FACTORS ARE UNIQUELY WITHIN THE USER'S KNOWLEDGE AND CONTROL, IT IS ESSENTIAL THAT THE USER EVALUATE THE SENSATA PRODUCT TO DETERMINE WHETHER IT IS FIT FOR A PARTICULAR PURPOSE AND SUITABLE FOR THE USER'S APPLICATION. SENSATA DISCLAIMS ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

9. THE EXPECTED DESIGN LIFE OF THE PRESSURE SWITCH IS IN ACCORDANCE WITH THE TESTING DOCUMENTED IN THE FOLLOWING SENSATA DOCUMENT REFERENCES:

PDL01109520	PDL01148656
PDL01107206	PDL01112379
PDL01109960	EL10000272
PDL1001392	EL10001245



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

DRAWN P.DESAUTEL DATE 26-JAN-2007
ENGINEER D. KOCZWARA DATE 26-JAN-2007
APPROVED J.SORIANO DATE 26-JAN-2007
APPROVED B. DAGUE DATE 26-JAN-2007

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 MILLIMETERS.
TOLERANCES
DECIMALS: X.X ± 0.1; X.XX ± 0.03; X.XXX ± 0.005
ANGLES: X.X° ± 0.5

DO NOT SCALE DRAWING
THIRD ANGLE PROJECTION

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

TITLE: 20PS ENVELOPE DRAWING
CUST: YORK
CUST P/N: 025-41854-000

SIZE	DWG NO.	REV.
A1	20PS01-0093	D

SCALE 1:1 | AUTOCAD | SHEET 1 OF 1

DEVICE:
PROJECT:
1