



REV.	REVISION DESCRIPTION	ECN NO.	DATE
C	SEE SHEET 1; PD	ECO-088606	10-JUN-2013

FUNCTIONAL CHARACTERISTICS (SEE NOTE 1)(CONTINUED):

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

7. ENVIRONMENTAL ENVELOPES:

STORAGE CONDITIONS:

LIMITED BY SATURATION TEMPERATURE CORRESPONDING TO THE PROOF PRESSURE (CHARACTERISTIC 1). DO NOT EXCEED THE PROOF PRESSURE. AVOID CONDITIONS RESULTING IN VACUUM AT THE SWITCH LOCATION. THE FOLLOWING CONDITIONS ARE PROVIDED FOR REFERENCE ONLY.

AMBIENT TEMPERATURE: -40° F TO 176° F [-40° C TO 80° C]  
FLUID TEMPERATURE: -40° F TO 176° F [-40° C TO 80° C]  
RELATIVE HUMIDITY: 95% MAX (SEE NOTE 4)

OPERATIONAL CONDITIONS:

AMBIENT TEMPERATURE: -40° F TO 176° F [-40° C TO 80° C]  
FLUID TEMPERATURE: -65° F TO 275° F [-54° C TO 135° C]  
RELATIVE HUMIDITY: 95% MAX (SEE NOTE 4)

AMBIENT ENVIRONMENT: NOT RECOMMENDED FOR USE IN VOLATILE, EXPLOSIVE, OR COMBUSTIBLE ATMOSPHERES OR IN ATMOSPHERES THAT COULD HAVE THE POTENTIAL OF BECOMING IGNITED

LIQUID IMMERSION: NOT RECOMMENDED


WORKING FLUID: NOT RECOMMENDED FOR USE WITH FLAMMABLE OR COMBUSTIBLE PRESSURE MEDIA. WETTED COMPONENTS ARE OF STEEL & BRASS CONSTRUCTION, FLUID OR GAS PRESSURE MEDIA INCOMPATIBLE WITH THESE MATERIALS SHOULD NOT BE USED.

SALT ENVIRONMENT: 70 HRS @ 5% SALT PER ASTM B117 (FUNCTIONALITY ONLY)

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

DEVICE: PROJECT:	TITLE FUNCTIONAL CHARACTERISTICS AND NOTES	
BY: P.DESAUTEL 23-OCT-2012	 529 PLEASANT STREET P.O. BOX 2964 ATTLEBORO, MA 02703	DWG. NO. 20PS13-0016
ENG: P.TAVILLA 20-OCT-2012		REV. C
APPR: M.ROMO 20-OCT-2012		
APPR: B.DAGUE 20-OCT-2012		SIZE: A PAGE 1 OF 3

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8. AGENCY RECOGNITIONS:

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:	JOHNSON CONTROLS
CUSTOMER P/N:	025 39956 003
FUNCTION:	PRESSURE SWITCH

SWITCH INSTALLATION: PER CUSTOMER SPECIFIED PROCEDURES

DO NOT APPLY TORQUE OR LATERAL FORCES TO SWITCH BODY DURING INSTALLATION

SENSATA IS NOT RESPONSIBLE FOR CUSTOMER INSTALLATION PROCEDURES OR PERFORMANCE DEGRADATION RESULTING FROM IMPROPER INSTALLATION

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**NOTES:**

1. FUNCTIONAL CHARACTERISTICS ARE DESCRIBED BASED ON ATMOSPHERIC CONDITIONS AT TIME OF MANUFACTURE. CHANGES IN BAROMETRIC PRESSURE, RELATIVE HUMIDITY, AND AMBIENT TEMPERATURE FROM TIME & ELEVATION OF MANUFACTURE MAY RESULT IN CALIBRATION SHIFT.
2. VALIDATION TESTING DONE BY SENSATA TO MEET 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 TESTED TO SPECIFIC CUSTOMER, REGULATORY OR SENSATA REQUIREMENTS. 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. APPLICATION OF THE PRESSURE SWITCH BELOW DEW-POINT MAY RESULT IN CONDENSATION FORMING WITHIN THE DEVICE AND IS NOT RECOMMENDED.
5. ENDURANCE LIFE EVALUATED BY SIMILARITY UNDER SA995.
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 EXCEEDING THE EXPOSURE LEVELS TESTED IN THE LAB AND DEFINED ABOVE ON THIS PRINT MAY RESULT IN CONTACT CHATTER & REDUCED PERFORMANCE.
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	EL10000272
PDL01107206	PDL01109960	
PDL1001392	EL10001245	

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