



025-39956-002
CO 301 CI 200
XXX%YY
3(3)A 240VAC
PMAx 41B PSH

CUSTOMER P/N
.08" HIGH IN BLACK INK

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.

* INDICATES CHARACTERISTIC SPECIFICALLY TESTED TO SPECIFIC CUSTOMER REQUIREMENTS BY SENSATA. SPECIFIC SECTIONS OF CUSTOMER REQUIREMENTS AX16240 AND JDO 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.

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.

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.

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.

PDL01109520	PDL01148656
PDL01107206	PDL01112379
PDL01109960	EL10000272
PDL1001392	EL10001245

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

2. CALIBRATION:

ACTUATION PRESSURE:	299 ± 7 PSIG
RELEASE PRESSURE:	200 ± 10 PSIG
PROOF PRESSURE:	600 PSIG
BURST PRESSURE:	5000 PSIG (RATED)

ACCURACY: EXPECTED ACCURACY THROUGHOUT STATED TEMPERATURE LIMITS IS $\pm 10\%$ 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: GOLD

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 μ A CURRENT LEAKAGE (SEE NOTE 4)
TERMINAL TO FITTING:	600 VRMS, <100 μ A 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

9. APPLICATION:

CUSTOMER:	JOHNSON CONTROLS
CUSTOMER P/N:	025 39956 002
FUNCTION:	PRESSURE SWITCH

SWITCH INSTALLATION: PER CUSTOMER SPECIFIED PROCEDURES

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



FOR REFERENCE ONLY. CHECK LATEST REVISION BEFORE USE. PARTS MADE TO THIS PRINT MUST CONFORM TO E9898 REV. E		 529 PLEASANT STREET P.O. BOX 2364 ATLEBORO, MA 02703	
DRAWN P. DESAUTEL DATE 23-OCT-2012 ENGINEER P. TAVILLA DATE 23-OCT-2012 APPROVED M. ROMO DATE 23-OCT-2012 APPROVED B. DAGUE DATE 23-OCT-2012	SENSATA TECHNOLOGIES PROPRIETARY AND CONFIDENTIAL. NOTHING THIS PRINT NOR THE INFORMATION CONTAINED HEREIN IS TO BE USED AGAINST THE INTERESTS OF SENSATA TECHNOLOGIES OR AGAINST THE INTERESTS OF ITS AFFILIATED COMPANIES OR WHOLLY OWNED SUBSIDIARIES. INTERPRET DIMENSIONS AND TOLERANCING PER ASME Y14.5-2009 UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE IN MILLIMETERS. TOLERANCES DECIMALS ANGLES		TITLE 20PS ENVELOPE DRAWING CUST: JOHNSON CONTROLS CUST P/N:025-39956-002
	DO NOT SCALE DRAWING	THIRD ANGLE PROJECTION	
	SIZE A1	DWG NO. 20PS13-0015	REV. B
	SCALE 1:1	AUTOCAD	SHEET 1 OF