

HONEYWELL PART NUMBER
4PB642
CUSTOMER PART NUMBER
416100-102

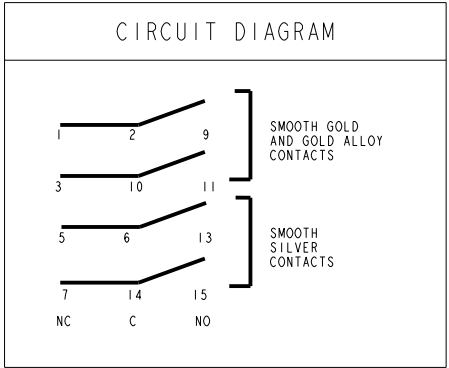
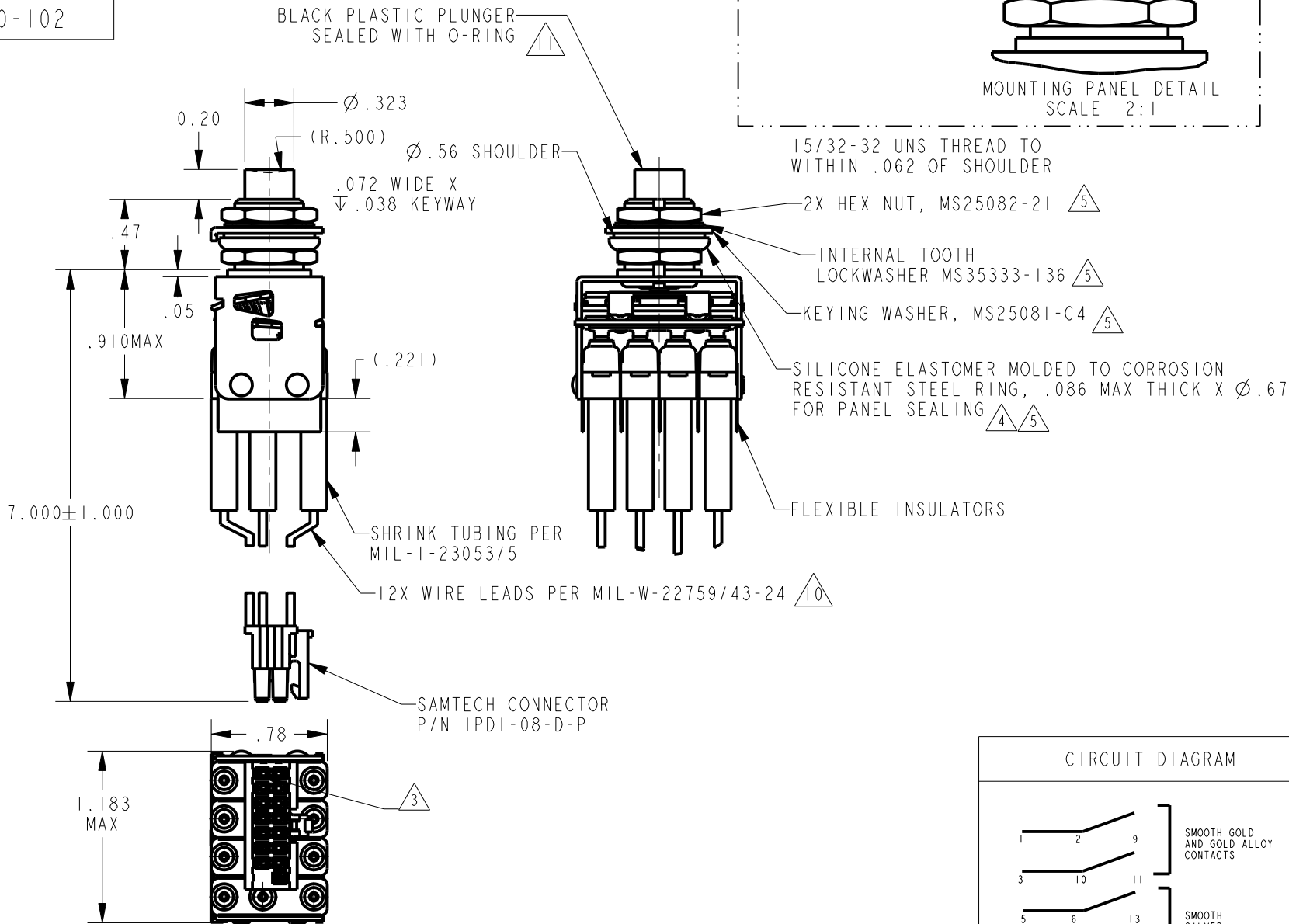
REV	DOCUMENT	CHANGED BY	CHECK
E	0037006	SS 29JAN08	BLR

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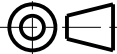


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- NOTES
- 1 - UNIT INCLUDES 4X "SM" TYPE BASIC SWITCH
 - 2 - SWITCHES DO NOT NECESSARILY OPERATE SIMULTANEOUSLY
 - 3 - CONNECTOR TERMINAL NUMBER 1
 - 4 - FOR PANEL SEAL TO BE EFFECTIVE, MOUNTING HOLE IN PANEL SHOULD NOT EXCEED Ø.500
 - 5 - HARDWARE FURNISHED ASSEMBLED WITH SWITCH OR IN PACKET PER MIL-PRF-8805
 - 6 - REPLACEMENT MOUNTING HARDWARE PACKET 15PA314-AT
 - 7 - DEVIATION FROM MIL-PRF-8805/23 REQUIREMENTS
 - 8 - CONTACT HONEYWELL-SENSING AND CONTROL IF ADDITIONAL INFORMATION ON LOW ENERGY LOADS IS REQUIRED OR FOR HELP WITH SPECIFIC APPLICATIONS
 - 9 - SWITCH MARKED WITH CATALOG LISTING, CAGE CODE, DATE CODE AND CUSTOMER PART NUMBER PER MIL-STD-130 FREE TEXT ONLY
 - 10 - 3X CABLE CLAMPS ASSEMBLED TO WIRE LEADS WITH APPROXIMATELY EQUAL SPACING BETWEEN SWITCH AND CONNECTOR.
 - 11 - PLUNGER COLOR BLACK PER DU PONT BK-602



DESIGN UNITS:	INCH
TOLERANCES UNLESS NOTED:	
NO PLACES	X ± 0.400
ONE PLACE	.X ± 0.030
TWO PLACE	.XX ± 0.015
THREE PLACE	.XXX ± 0.005
ANGLES	X ± 3°
THIRD ANGLE PROJECTION	



SPECIFICATION DETAILS:			
STANDARD	CONFORMS TO MIL-PRF-8805E/23G EXCEPT AS NOTED (7)		
CONSTRUCTION:			
ENCLOSURE DESIGN	UNSEALED; PLUNGER & PANEL SEAL MEET LIQUID SPILL SEALING OF BOEING D6-52191, PARAGRAPH 11.5.4.1 (8)		
CONTACT MATERIAL & CONFIGURATION	REFER TO CIRCUIT DIAGRAM (7)		
CIRCUIT CONFIGURATION	4X S.P.D.T MOMENTARY		
TERMINATION	24 GAGE WIRES AND CONNECTOR (7)		
WEIGHT	3.0 OZ MAX		
EXPOSED METALS	CORROSION RESISTANT		
ELECTRICAL CHARACTERISTICS:			
CONTACT ARRANGEMENT			
ELECTRICAL RATINGS (7)			
	VOLTAGE	RESISTIVE	INDUCTIVE
-SEA LEVEL, SILVER CONTACTS	28 VDC	5.0 A	3.0 A
-50,000 FEET, SILVER CONTACTS	28 VDC	5.0 A	3.0 A
-SEA LEVEL, GOLD BIFURCATED CONTACTS	28 VDC	1.0 A	0.5 A
-50,000 FEET, GOLD BIFURCATED CONTACTS	28 VDC	1.0 A	0.5 A
DIELECTRIC STRENGTH & INSULATION RES (BASIC SWITCH)	DIELECTRIC STRENGTH		INSULATION RESISTANCE
	(~ 60 Hz FOR 5 SECONDS)		(500 VDC ± 10%)
-BETWEEN TERMINALS AND EXPOSED NON-CURRENT CARRYING METAL	1000 V rms, 500 µA (MAX LEAKAGE)	1000 MΩ MIN	
-BETWEEN TERMINALS OF MUTUALLY INSULATED CIRCUITS	1000 V rms, 500 µA (MAX LEAKAGE)	1000 MΩ MIN	
-BETWEEN ALL UNCONNECTED TERMINALS OF THE SAME POLE	1000 V rms, 500 µA (MAX LEAKAGE)	1000 MΩ MIN	
SWITCH RESISTANCE	N/A		
RECOMMENDATION OR USE IN APPL LESS THAN .5 A AND/OR 12 V	(8)		
MECHANICAL CHARACTERISTICS:			
MOUNTING STRENGTH	25 INCH-POUNDS		
ACTUATOR STRENGTH	25 POUNDS		
OPERATE FORCE	2-5 Lbs		
PRETRAVEL	(.040)		
TOTAL TRAVEL	(.100)		
LIFE:			
MECHANICAL LIFE	50,000 MIN		
ELECTRICAL LIFE AT FULL RATED LOAD	25,000 MIN		
ENVIRONMENTAL:			
TEMPERATURE RANGE	-55°C TO +85°C		
ALTITUDE RANGE	SEA LEVEL TO 50,000 FT		
SHOCK	100g PER MIL-STD-202G, METHOD 213, CONDITION 1		
VIBRATION	PER KORYY DOCUMENT 419025, REV XE, APPENDIX A (6)		
HUMIDITY	RTCA DO-160E, SECTION 6, CATEGORY A (6)		
THERMAL SHOCK	N/A		
SALT SPRAY	N/A		

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Honeywell			
TITLE			
ASSEMBLY, PUSHBUTTON SWITCH			
SIZE	TYPE	DRAWING NAME	REV
B	I	4PB642	E
SCALE	1:1	SHEET	1 OF 1