

HONEYWELL
PART NUMBER

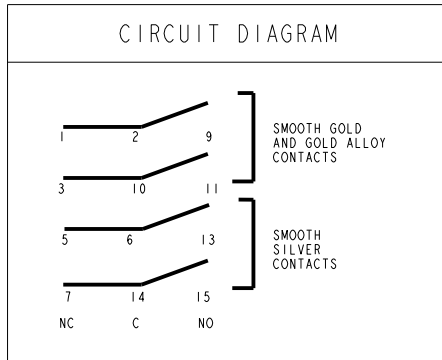
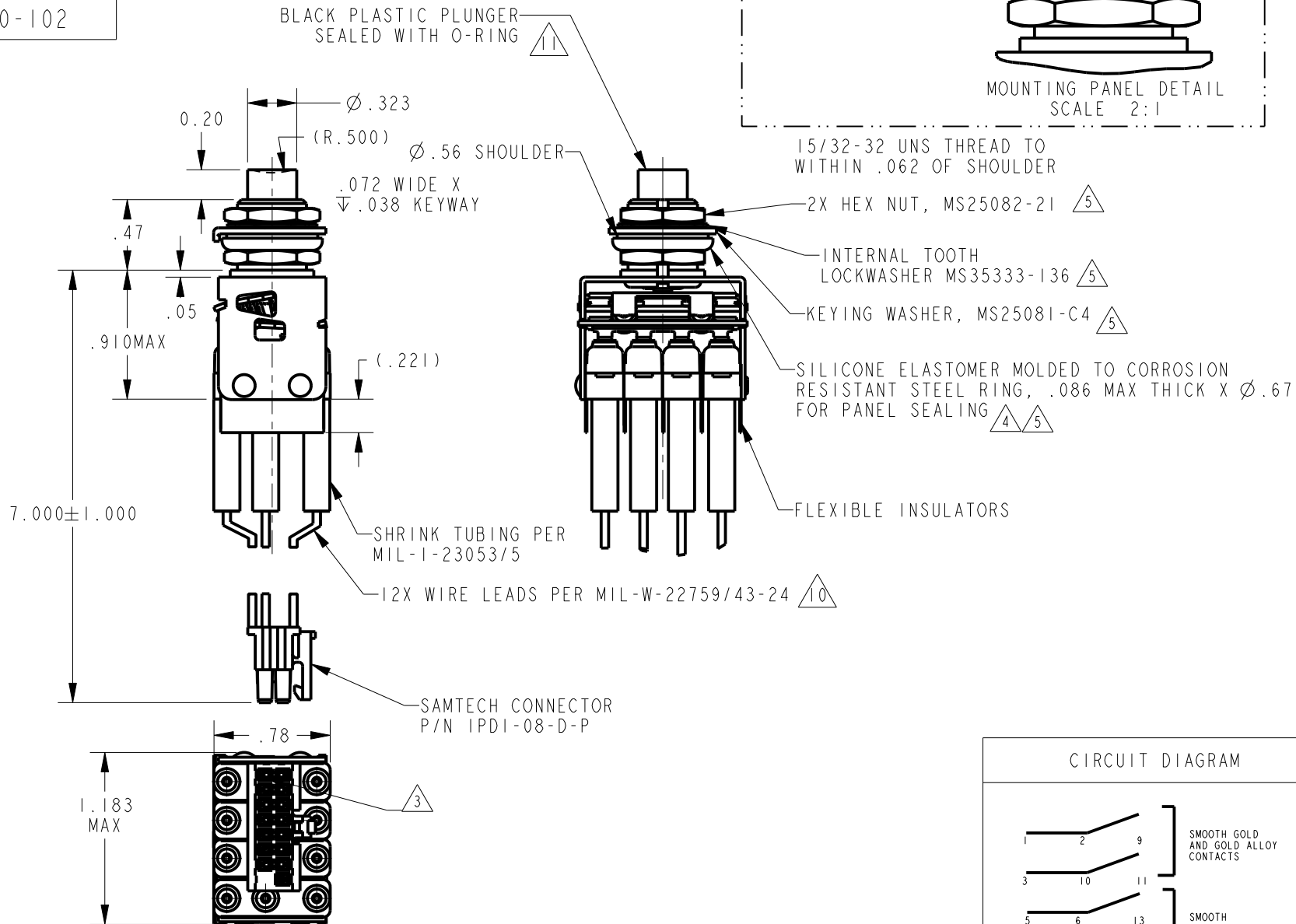
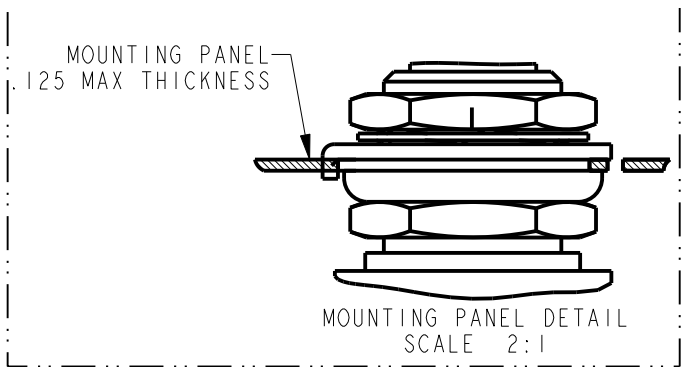
4PB642

CUSTOMER
PART NUMBER

416100-102

REV	DOCUMENT	CHANGED BY	CHECK
E	0037006	SS 29JAN08	BLR

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 KORRY DOCUMENT 419025, REV XE, APPENDIX A ⁶		
HUMIDITY	RTCA DO/160E, SECTION 6, CATEGORY A ⁶		
THERMAL SHOCK	N/A		
SALT SPRAY	N/A		



- 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

DRAWN	BNA	19SEP06
CHECK	DVM	19SEP06
THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE PERMISSION OF HONEYWELL.		
INTERPRET PER ASME Y14.5M-1994 OTHER HONEYWELL ENGINEERING STANDARDS MAY APPLY		
Pro/ENGINEER	3D	

Honeywell

ASSEMBLY, PUSHBUTTON SWITCH

SIZE	TYPE	DRAWING NAME	REV
B	I	4PB642	E
SCALE	1:1	SHEET	1 OF 1