



- NOTES
- 1 - EXPOSED PARTS ARE OF CORROSION RESISTANT MATERIAL OR ARE SUITABLY PROTECTED TO PREVENT CORROSION. ENCLOSURE FINISHED WITH BLUE EPOXY BASED ENAMEL COLOR NO. 25184 PER FEDERAL STANDARD 595
 - 2 - SWITCH SEALED PER MIL-S-5594
 - 3 - HOLD IN VOLTAGE: THE MINIMUM SPECIFIED VOLTAGE AT WHICH THE LEVER WILL REMAIN ACTUATED. HOLD IN MAY OCCUR AT A LOWER VALUE. DROP OUT VOLTAGE: THE VOLTAGE RANGE IN WHICH THE LEVER WILL BE RELEASED
 - 4 - CIRCUITS CAN BE TRANSFERRED MANUALLY. ENERGIZING THE COIL WILL NOT CAUSE TRANSFER OF CIRCUITS
 - 5 - CIRCUIT IDENTIFICATION IS SHOWN ON SWITCH
 - 6 - HARDWARE MAY BE FURNISHED UNASSEMBLED PER MIL-S-5594
 - 7 - SWITCHES DO NOT NECESSARILY OPERATE SIMULTANEOUSLY
 - 8 - THE DIODES ARE JANTXV TYPE AND LIMIT THE EMI: SPIKES (TRANSIENTS OF DURATION LESS THAN 500 MICRO SECONDS) GENERATED BY THE SWITCH COIL SHALL NOT EXCEED 42 VOLTS
 - 9 - CONTACT HONEYWELL-MICRO SWITCH IF ADDITIONAL INFORMATION ON LOW ENERGY LOADS IS REQUIRED OR FOR HELP WITH SPECIFIC APPLICATIONS
 - 10 - CUSTOMER PART NUMBER: 5PTV0505-1

SPECIFICATION DETAILS:													
STANDARD:	CONFORMS TO MIL-S-5594												
CONSTRUCTION:													
ENCLOSURE DESIGN:	SEALED TO 1 X 10 ⁻⁶ ATM*CC/S PER MIL-S-5594 PARA.3.12 & 4.9.8												
SEAL MATERIAL:	SILICONE RUBBER												
CONTACT MATERIAL & CONFIGURATION:	SMOOTH GOLD PLATED SILVER CONTACTS ⁵												
CIRCUIT CONFIGURATION:	4X S P D T												
TERMINATION:	BOTTOM EXIT LEADWIRES												
WEIGHT:	10 ozf (2.8N) MAX												
EXPOSED METALS:	CORROSION RESISTANT OR SUITABLY PROTECTED TO PREVENT CORROSION												
ENCLOSURE PAINT:	BLUE EPOXY BASED ENAMEL COLOR NO. 25184 PER FEDERAL STANDARD 595												
ELECTRICAL CHARACTERISTICS:													
ELECTRICAL RATINGS:	<table border="1"> <thead> <tr> <th></th> <th>VOLTAGE</th> <th>INDUCTIVE</th> <th>RESISTIVE</th> </tr> </thead> <tbody> <tr> <td>-SEA LEVEL</td> <td>28 VDC</td> <td>.5 A</td> <td>1 A</td> </tr> <tr> <td>-65,000 FEET</td> <td>28 VDC</td> <td>.5 A</td> <td>1 A</td> </tr> </tbody> </table>		VOLTAGE	INDUCTIVE	RESISTIVE	-SEA LEVEL	28 VDC	.5 A	1 A	-65,000 FEET	28 VDC	.5 A	1 A
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DIELECTRIC STRENGTH & INSULATION RES	DIELECTRIC STRENGTH	INSULATION RESISTANCE											
-BETWEEN ALL TERMINALS AND EXPOSED NON-CURRENT CARRYING METAL OR GROUNDED PARTS	1000V RMS, 1000µA (MAX LKG)	N/A											
-BETWEEN ALL TERMINALS OF MUTUALLY INSULATED CIRCUITS, INCLUDING BETWEEN POLES	1000V RMS, 1000µA (MAX LKG)	N/A											
-BETWEEN ALL UNCONNECTED TERMINALS OF THE SAME POLE	1000V RMS, 1000µA (MAX LKG)	N/A											
SWITCH RESISTANCE:	N/A												
RECOMMENDATION OR USE IN APPL LESS THAN .5 amps AND/OR 12 volts	YES ⁹												
MECHANICAL CHARACTERISTICS: ³													
STEADY STATE LIMITS	20-29 VDC												
HOLD IN VOLTAGE	15 VDC												
DROP OUT VOLTAGE	0-15 VDC												
OPERATING FORCE AT 30 VDC	7 lbf (31, 1 N) MAX												
OVERRIDE FORCE AT 30 VDC	10 lbf (44, 5 N) MAX												
SOLENOID RESISTANCE AT 30 VDC AND 68° F (20° C)	220 OHMS MIN												
MOUNTING STRENGTH	15 lbf-IN (1,7 NM) MAX												
ACTUATING STRENGTH	25 lbf (111,2N) PER MIL-S-5594 PARA.3.8 & 4.9.4.A 15 lbf (66,7N) PER MIL-S-5594 PARA.3.8 & 4.9.4.B												
LIFE:													
MECHANICAL LIFE	40,000 CYCLES MIN PER MIL-S-5594 PARA.3.10 & 4.9.6												
ELECTRICAL LIFE AT FULL RATED LOAD	20,000 CYCLES MIN PER MIL-S-5594 PARA.3.11 & 4.9.7												
ENVIRONMENTAL:													
TEMPERATURE RANGE	-85° F (-65° C) TO +160° F (+71° C)												
ALTITUDE RANGE	SEA LEVEL TO 65,000 FT												
SHOCK	PER MIL-S-5594 PARA. 3.14 & 4.9.10												
VIBRATION	PER MIL-S-5594 PARA. 3.13 & 4.9.9												
MOISTURE RESISTANCE	PER MIL-S-5594 PARA. 3.17 & 4.9.13												
ACCELERATION	PER MIL-S-5594 PARA. 3.15 & 4.9.11												
SALT SPRAY	PER MIL-S-5594 PARA. 3.16 & 4.9.12												
SAND AND DUST	PER MIL-S-5594 PARA. 3.18 & 4.9.14												
EXPLOSION	PER MIL-S-5594 PARA. 3.19 & 4.9.15												

PTC/CAD 20
 DRAWN: G. J. W.
 CHECK: J. W. S.
 DATE: 15 NOV 00
 RELEASE NO. 201734
 29ET16-3B-K
 DRAWING NUMBER: 1 OF 1
 ISSUE: 1
 REVISIONS:

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FED. MFG. CODE 91929		SCALE: 2 : 1	
MICRO SWITCH a Honeywell Division		DO NOT SCALE PRINT	
SWITCH - TOGGLE (MAGNETIC HOLD - IN)		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	
29ET16-3B-K		ONE PLACE (.0) +.030	
		TWO PLACE (.00) +.015	
		THREE PLACE (.000) +.005	
		ANGLES +	
		WEIGHT 10 OZ MAX	