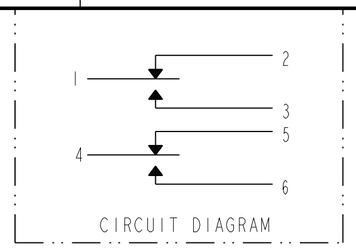
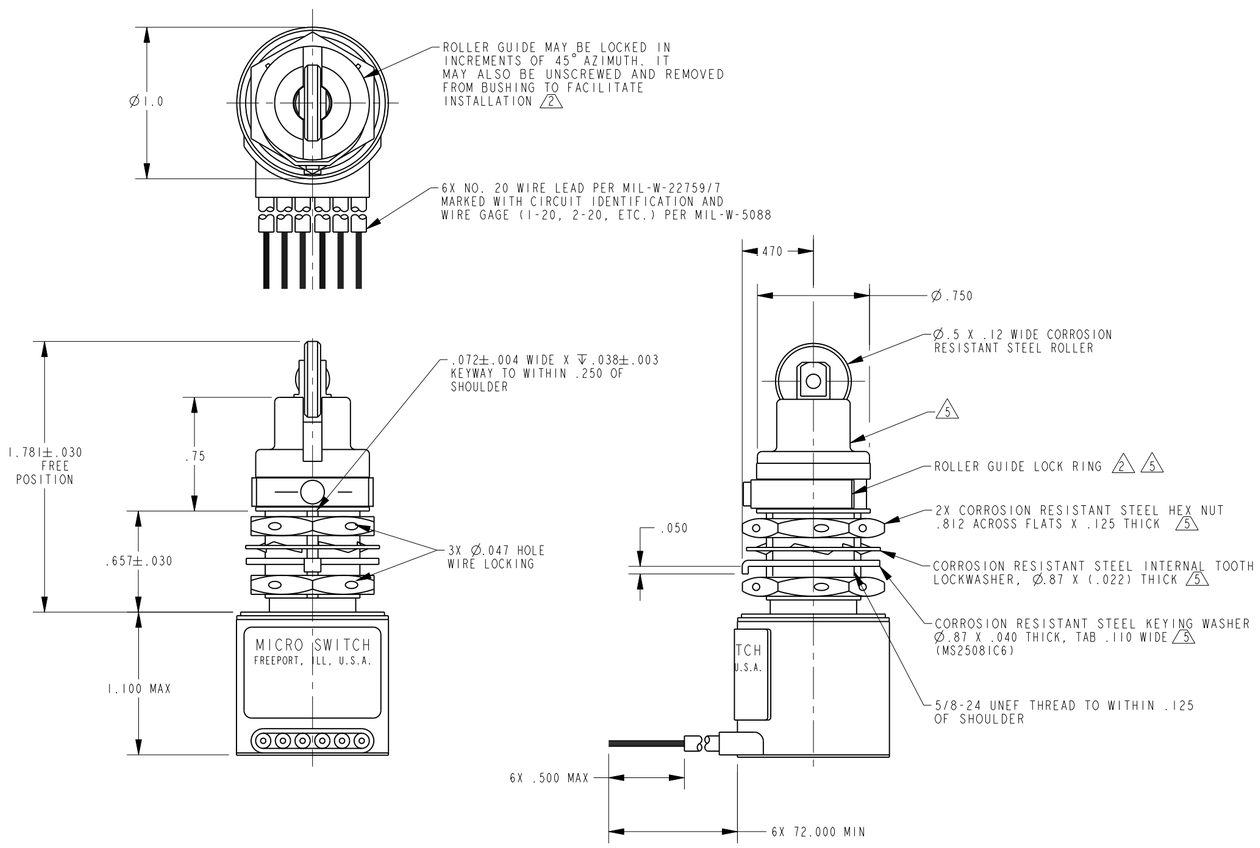
FO-55112-B

| HONEYWELL PART NUMBER |
|---|
| 21EN107-6 |
| FAA-PMA △8 |

| REV | DOCUMENT | CHANGED BY | CHECK |
|---|---|---|---|
| 25 | 0016179 | DVM 24OCT05 | RJ |




| SPECIFICATION DETAILS: | | | | |
|---|---|---|---|---|
| STANDARD: | CONFORMS TO MS24331-1 (MIL-PRF-8805/40), EXCEPT AS NOTED | | | |
| CONSTRUCTION: | | | | |
| ENCLOSURE DESIGN | RESILIENT SEAL PER MIL-PRF-8805, SYMBOL 4 | | | |
| CONTACT MATERIAL & CONFIGURATION | SMOOTH SILVER CONTACTS | | | |
| CIRCUIT CONFIGURATION | 2SPDT | | | |
| TERMINATION | LEADWIRE PER MIL-W-22759/7 | | | |
| WEIGHT | 10.0 OZ MAX | | | |
| O-RING | SILICONE ELASTOMER | | | |
| EXPOSED METALS | CORROSION RESISTANT STAINLESS STEEL | | | |
| ELECTRICAL CHARACTERISTICS: | | | | |
| ELECTRICAL RATINGS | VOLTAGE | RESISTIVE | LOAD INDUCTIVE | MOTOR |
| -SEA LEVEL | 28 VDC | 4A | 2A | 4A |
| -50,000 FEET | 28 VDC | 4A | 2A | |
| DIELECTRIC STRENGTH & INSULATION RES | DIELECTRIC STRENGTH (≈ 60 Hz FOR 5 SECONDS) | | INSULATION RESISTANCE (500 VDC ±10%) | |
| -BETWEEN TERMINALS AND EXPOSED NON-CURRENT CARRYING METAL | 1000 V Rms, 500 μA (MAX LEAKAGE) | | 1000 Meghoms MIN | |
| -BETWEEN TERMINALS OF MUTUALLY INSULATED CIRCUITS | 1000 V Rms, 500 μA (MAX LEAKAGE) | | 1000 Meghoms MIN | |
| -BETWEEN ALL UNCONNECTED TERMINALS OF THE SAME POLE | 1000 V Rms, 500 μA (MAX LEAKAGE) | | 1000 Meghoms MIN | |
| SWITCH RESISTANCE | N/A | | | |
| RECOMMENDATION OR USE IN APPL LESS THAN .5 amps AND/OR 12 volts △1 | △6 | | | |
| MECHANICAL CHARACTERISTICS: | | | | |
| COINCIDENCE OF OPERATING AND RELEASING POINTS | .010 OF PLUNGER TRAVEL | | | |
| OPERATING FORCE | 6-12 LBS | | | |
| FULL OVERTRAVEL FORCE | 30 LB MAX | | | |
| RELEASE FORCE | 4 LB MIN | | | |
| PRETRAVEL | .040 MAX | | | |
| DIFFERENTIAL TRAVEL | .020 MAX | | | |
| OVERTRAVEL | .250 MIN | | | |
| MOUNTING STRENGTH | 15 IN-LBS | | | |
| ACTUATOR STRENGTH | 30 LBS APPLIES IN A DIRECTION TO CAUSE SWITCH ACTUATION | | | |
| LIFE: | | | | |
| MECHANICAL LIFE | 25,000 MIN PER MIL-PRF-8805/40 △7 | | | |
| ELECTRICAL LIFE AT FULL RATED LOAD | 25,000 MIN PER MIL-PRF-8805/40 △7 | | | |
| ENVIRONMENTAL: | | | | |
| TEMPERATURE RANGE | -55° C TO +85° C | | | |
| ALTITUDE RANGE | SEA LEVEL TO 50,000 FT | | | |
| SHOCK | PER MIL-PRF-8805 SYMBOL M-100g | | | |
| VIBRATION | PER MIL-PRF-8805 SYMBOL 1 - 10-500 Hz & 10g PEAK | | | |
| MOISTURE RESISTANCE | PER MIL-PRF-8805 (10 DAYS TEST) | | | |
| THERMAL SHOCK | PER MIL-PRF-8805 (5 CYCLE TEST) | | | |
| SALT SPRAY | PER MIL-PRF-8805 (96 HOURS TEST) | | | |

NOTES

△1 NOT RECOMMENDED

△2 TO ADJUST ROLLER DIRECTION, REMOVE ROLLER GUIDE LOCK RING, SCREW ROLLER GUIDE DOWN AS FAR AS POSSIBLE, THEN UNSCREW TO DESIRED DIRECTION. SECURE BY REPLACING ROLLER GUIDE LOCK RING

3 - CIRCUIT DIAGRAM, CATALOG LISTING, DATE CODE FEDERAL MANUFACTURING CODE AND FAA-PMA ARE SHOWN ON NAMEPLATE

4 - REPLACEMENT LOCK RING-PACKET 15PA137

△5 HARDWARE MAY BE PACKAGED UNASSEMBLED PER MIL-PRF-8805

△6 CONTACT HONEYWELL-MICRO SWITCH IF ADDITIONAL INFORMATION ON LOW ENERGY LOADS IS REQUIRED OR FOR HELP WITH SPECIFIC APPLICATIONS

△7 LIFE RATINGS ARE PER MIL-PRF-8805 REQUIREMENTS. ACTUAL LIFE EXCEEDS RATED LIFE. CONTACT HONEYWELL-MICRO SWITCH FOR ADDITIONAL DATA

△8 FOR MANUFACTURING DETAIL SEE ASSEMBLY DRAWING 21EN107-6 FOR FAA-PMA

9 WEIGHT 10.0 OZ MAX

DESIGN UNITS: INCH
TOLERANCES UNLESS NOTED:

| | | | |
|---|---|---|---|
| NO PLACE | X | ± | |
| ONE PLACE | .X | ± | .030 |
| TWO PLACE | .XX | ± | .015 |
| THREE PLACE | .XXX | ± | .005 |
| FOUR PLACE | .XXXX | ± | |
| ANGLES | X | ± | |

THIRD ANGLE PROJECTION

| | | |
|---|---|---|
| DRAWN | TSM | 01NOV00 |
| CHECK | SAV | 01NOV00 |

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INTERPRET PER ANSI Y14.5M-1982 OTHER HONEYWELL ENGINEERING STANDARDS MAY APPLY

Pro/ENGINEER 2D

Honeywell

TITLE SWITCH - ENCLOSED

| SIZE | TYPE | DRAWING NAME | REV |
|---|---|---|---|
| C | 1 | 21EN107-6 | 25 |

SCALE 2:1 SHEET 1 OF 1

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