
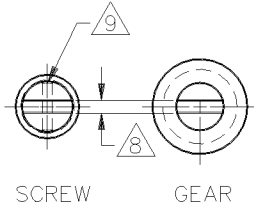
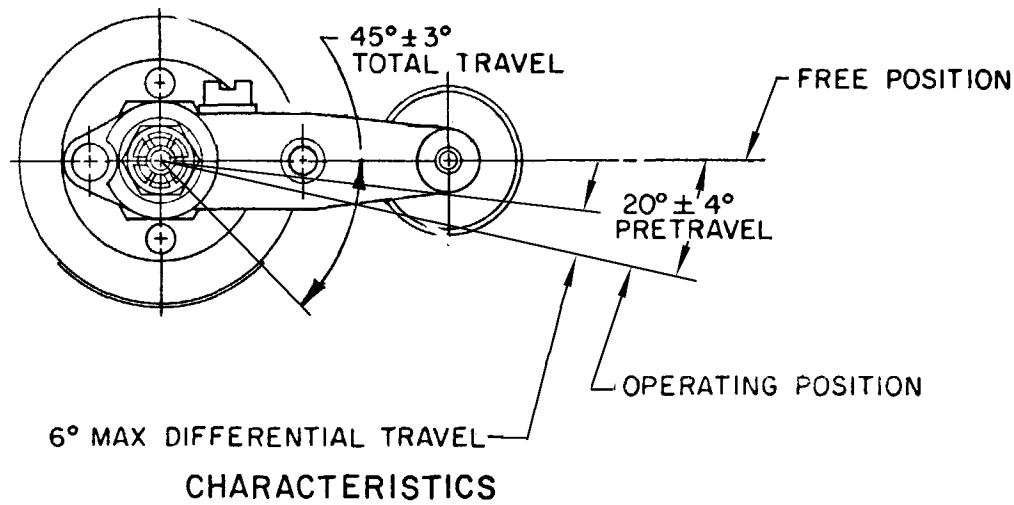


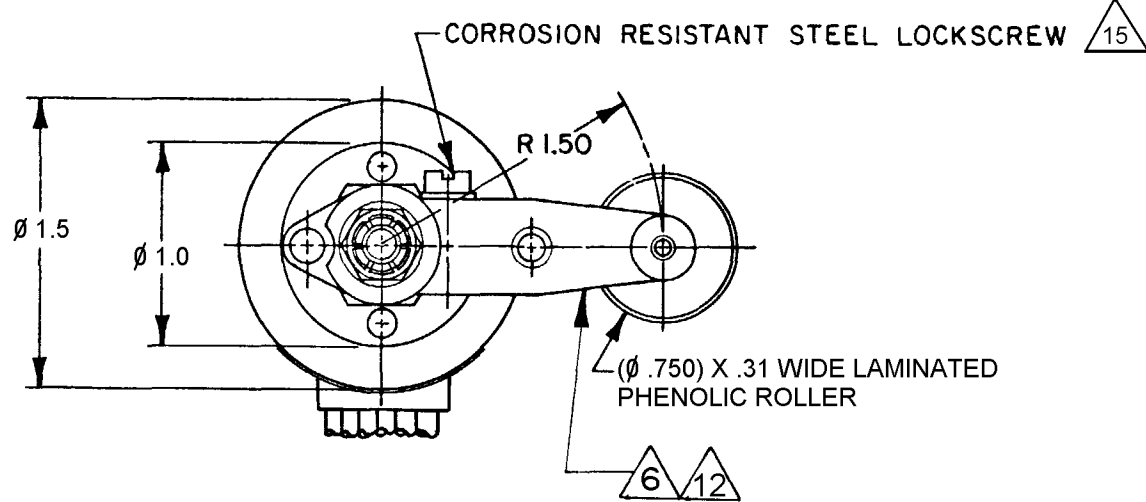
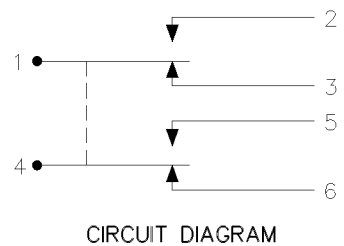
HONEYWELL  
PART NUMBER  
**32EN61-4**  
FAA-PMA 



| REV | DOCUMENT | CHANGED BY  | CHECK |
|-----|----------|-------------|-------|
| 23  | 0016179  | DVM 24OCT05 | RJ    |

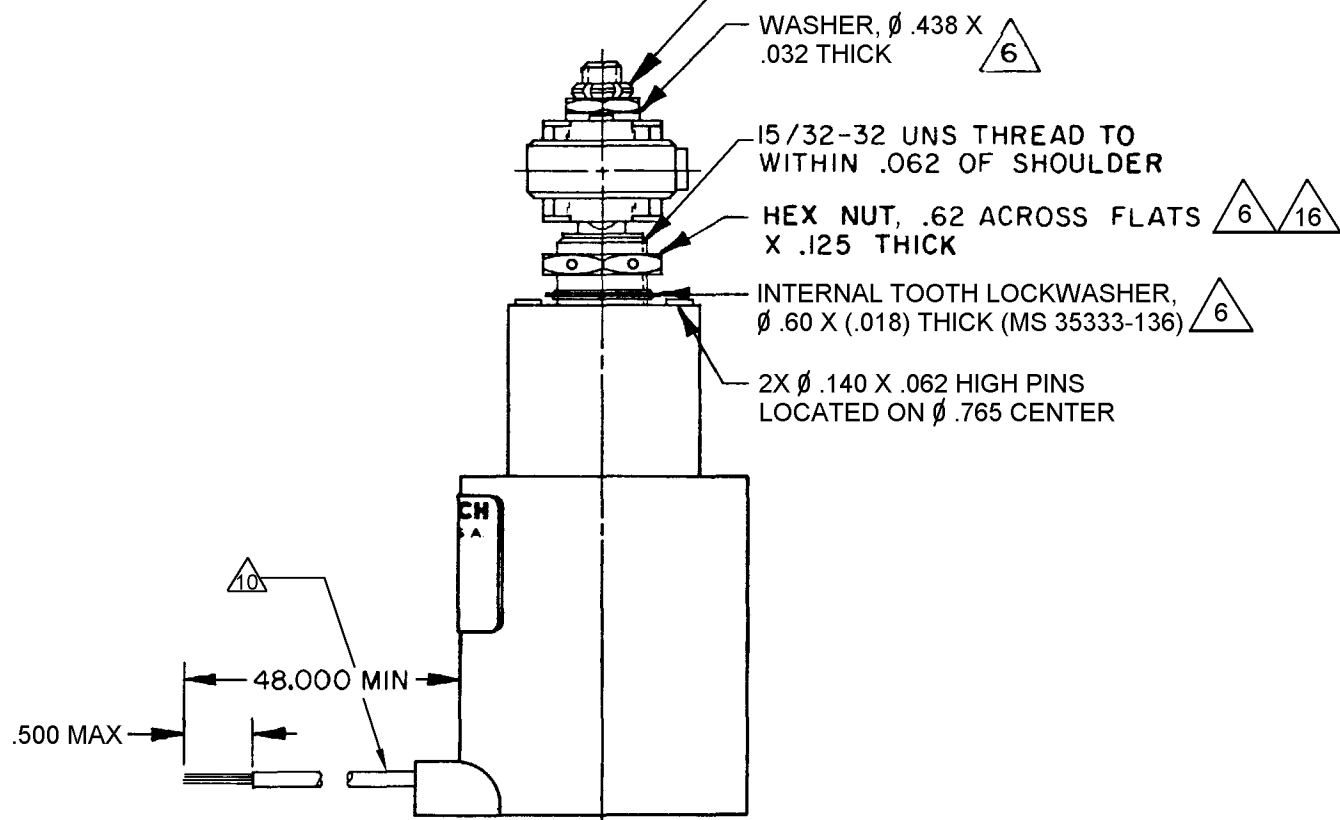
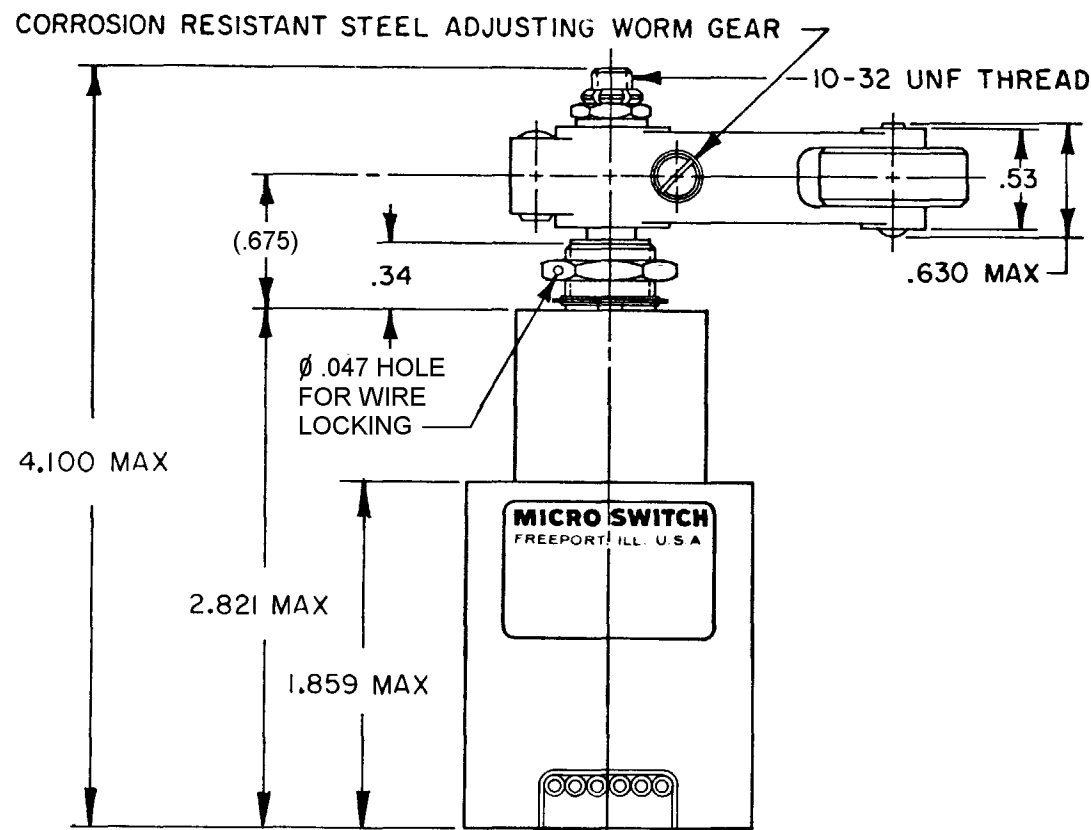


ROLLER LEVER MAY BE ADJUSTED FOR AN INFINITE NUMBER OF POSITIONS THRU 360°. ADJUSTMENT IS MADE BY LOOSENING THE LOCK NUT AND THEN THE SCREW AND TURNING GEAR UNTIL LEVER IS IN DESIRED POSITION. SCREW AND LOCK NUT ON SHAFT IS THEN TIGHTENED TO POSITIVELY LOCK LEVER IN POSITION.

LEVER ADJUSTMENT DETAIL  
SCALE 2:1




CORROSION RESISTANT STEEL LOCKING NUT, .37 ACROSS FLATS (MS 21083-C3) 



## NOTES

 UNLESS OTHERWISE NOTED

 OPERATING POINT OF BOTH POLES SHALL BE WITHIN 1/2° OF SHAFT ROTATION AND RELEASE POINT OF BOTH POLES SHALL BE WITHIN 1/2° OF SHAFT ROTATION CONTROLLING ELECTRICAL LOADS OF 2 AMPS OR LESS

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

 INSTALLATION TORQUE 20-25 IN.-LBS.

 **CIRCUIT DIAGRAM, CATALOG LISTING, DATE CODE, FED. MFG. CODE AND FAA-PMA ARE SHOWN ON NAMEPLATE**

 HARDWARE MAY BE PACKAGED UNASSEMBLED PER MIL-PRF-8805

 REPLACEMENT MOUNTING HARDWARE - PACKET 19PA10

 .050 WIDE X .050 DEEP SLOT

 Ø.037 HOLE FOR WIRE LOCKING


 (6) NO. 18 WIRE LEAD IN ACCORDANCE WITH MIL-W-22759/7

MARKED WITH SWITCH CIRCUIT IDENTIFICATION AND WIRE GAGE (1-18, 2-18 ETC) PER MIL-W-5088

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

 DIE CAST ALUMINUM





 O-RING MATERIAL: SILICONE


 TOTAL TRAVEL OF ROLLER LEVER IS 45° ± 3° IN CLOCKWISE DIRECTION ONLY, WITH SPRING RETURN TO NEUTRAL

 AFTER LEVER ADJUSTMENT, FINAL LOCKING TORQUE 12-16 IN-LBS

 JAM NUT INSTALLATION TORQUE: 15-30 IN-LBS

 FOR MANUFACTURING DETAIL SEE ASSEMBLY DRAWING 32EN61-4 FOR FAA-PMA

| SPECIFICATION DETAILS:  |   |           |                                       |       |
|---|---|-----------|---------------------------------------|-------|
| STANDARD:   | CONFORMS TO MIL-PRF-8805/48, EXCEPT AS NOTED  |           |                                       |       |
| CONSTRUCTION:   |   |           |                                       |       |
| ENCLOSURE DESIGN  | RESILIENT SEAL PER MIL-PRF-8805 SYMBOL 4  |           |                                       |       |
| CONTACT MATERIAL & CONFIGURATION  | SMOOTH SILVER CONTACTS  |           |                                       |       |
| CIRCUIT CONFIGURATION   | 2 SPDT  |           |                                       |       |
| TERMINATION   | LEADWIRE PER MIL-WV-22759/7   |           |                                       |       |
| WEIGHT  | 12.3 OZ MAX   |           |                                       |       |
| EXPOSED METALS  | CORROSION RESISTANT STAINLESS STEEL  |           |                                       |       |
| ELECTRICAL CHARACTERISTICS:   |   |           |                                       |       |
| ELECTRICAL RATINGS  | VOLTAGE   | RESISTIVE | LOAD INDUCTIVE                        | MOTOR |
| -SEA LEVEL  | 28 VDC  | 10        | 6                                     | 6     |
| -50,000 FEET  | 28 VDC  | 10        | 3                                     |       |
| DIELECTRIC STRENGTH & INSULATION RESISTANCE                             | DIELECTRIC STRENGTH (≈60 Hz. FOR 5 SECONDS)   |           | INSULATION RESISTANCE (500 VDC ± 10%) |       |
| -BETWEEN TERMINALS AND EXPOSED NON-CURRENT CARRYING METAL               | 1000 V Rms, 500µ A (MAX. LEAKAGE)   |           | 1000 Megohms MIN                      |       |
| -BETWEEN TERMINALS OF MUTUALLY INSULATED CIRCUITS                       | "   |           | "                                     |       |
| -BETWEEN ALL UNCONNECTED TERMINALS OF THE SAME POLE                     | "   |           | "                                     |       |
| SWITCH RESISTANCE   | N/A   |           |                                       |       |
| RECOMMENDATION OR USE IN APPLICATIONS LESS THAN .5 amps AND/OR 12 volts | NO                                   |           |                                       |       |
| MECHANICAL CHARACTERISTICS:   |   |           |                                       |       |
| CHARACTERISTICS:  |   |           |                                       |       |
| OPERATING TORQUE  | 12-25 IN-LBS  |           |                                       |       |
| FULL OVERTRAVEL TORQUE  | 40 IN-LBS MAX   |           |                                       |       |
| RELEASE TORQUE  | 9 IN-LBS MIN (AS ADJUSTED)  |           |                                       |       |
| FREE POSITION   | SEE DETAIL  |           |                                       |       |
| PRETRAVEL   |   |           |                                       |       |
| DIFFERENTIAL TRAVEL   |   |           |                                       |       |
| OVERTRAVEL  |   |           |                                       |       |
| MOUNTING STRENGTH   | 15 IN-LBS RECOMMENDED PER MIL-PRF-8805  |           |                                       |       |
|   | 30 IN - LBS MAX WILL NOT CAUSE SWITCH DAMAGE  |           |                                       |       |
| ACTUATOR STRENGTH   | 10 LBS APPLIES IN A DIRECTION TO CAUSE SWITCH ACTUATION   |           |                                       |       |
| LIFE:   |   |           |                                       |       |
| MECHANICAL LIFE   | 25,000 MIN. PER MIL-PRF-8805/48      |           |                                       |       |
| ELECTRICAL LIFE AT FULL RATED LOAD                                      | 25,000 MIN. PER MIL-PRF-8805/48      |           |                                       |       |
| ENVIRONMENTAL:  |   |           |                                       |       |
| TEMPERATURE RANGE   | -55 C TO +85 C  |           |                                       |       |
| ALTITUDE RANGE  | SEA LEVEL TO 50,000 FEET  |           |                                       |       |
| SHOCK   | PER MIL-PRF-8805 SYMBOL M - 100 g   |           |                                       |       |
| VIBRATION   | PER MIL-PRF-8805 SYMBOL 1 - 10-500 Hz. & 10 g peak  |           |                                       |       |
| MOISTURE RESISTANCE   | PER MIL-PRF-8805  |           |                                       |       |
| THERMAL SHOCK   | PER MIL-PRF-8805  |           |                                       |       |
| SALT SPRAY  | PER MIL-PRF-8805  |           |                                       |       |

|   |  |   |  |     |  |         |  |                            |      |              |              |     |
|---|--|---|--|-----|--|---------|--|----------------------------|------|--------------|--------------|-----|
| DESIGN UNITS: INCH<br>TOLERANCES UNLESS NOTED:  |  | DRAWN   |  | TSM |  | 20SEP01 |  | <div>Honeywell</div>       |      |              |              |     |
|   |  | CHECK   |  | SAV |  | 20SEP01 |  |                            |      |              |              |     |
| NO PLACE X ± 0.040  |  | THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF HONEYWELL.<br>THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE PERMISSION OF HONEYWELL. |  |     |  |         |  | TITLE<br>SWITCH - ENCLOSED |      |              |              |     |
| ONE PLACE .X ± 0.030  |  |   |  |     |  |         |  |                            |      |              |              |     |
| TWO PLACE .XX ± 0.015   |  |   |  |     |  |         |  | SIZE                       | TYPE | DRAWING NAME |              | REV |
| THREE PLACE .XXX ± 0.005  |  |   |  |     |  |         |  | C                          | I    | 32EN61-4     |              | 23  |
| FOUR PLACE .XXXX ± 0.0005   |  | INTERPRET PER ASME Y14.5M-1994<br>OTHER HONEYWELL ENGINEERING STANDARDS MAY APPLY   |  |     |  |         |  | SCALE                      |      | NONE         | SHEET 1 OF 1 |     |
| ANGLES ± 2  |  |   |  |     |  |         |  |                            |      |              |              |     |
| THIRD ANGLE PROJECTION<br> |  | RASTER  |  |     |  |         |  |                            |      |              |              |     |

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