

MICRO SWITCH
FREEPORT, ILLINOIS, U.S.A.
A DIVISION OF HONEYWELL
FED. MFG. CODE 9192B

SWITCH-ENCLOSED

CATALOG LISTING
131EN27-2

Technical drawing of a roller assembly. The drawing shows a circular base with a central threaded hole and a horizontal slot. A roller is mounted in the slot, supported by two bearings. The roller has a diameter of .750 REF DIA x .31 WIDE and is made of LAMINATED PHENOLIC. The base has a diameter of 1.00 DIA and a height of 24.000 MIN. The slot width is .500 MAX. A CORROSION RESISTANT STEEL LOCKSCREW is used to secure the roller. A callout box with the number 7 identifies the roller component.

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

LEVER ADJUSTMENT DETAIL
SCALE 2 TO 1

The diagram illustrates a mechanical linkage with two main operating positions: 'OPERATING POSITION' and 'FREE POSITION'. In the 'OPERATING POSITION', the linkage is shown with a vertical input rod. The total vertical movement of this rod is labeled as $45^\circ \pm 3^\circ$ TOTAL TRAVEL. The linkage is also labeled with 4° MAX DIFFERENTIAL TRAVEL. In the 'FREE POSITION', the input rod is horizontal. The angle between the horizontal input rod and the vertical input rod is labeled as $13^\circ \pm 3^\circ$ PRETRAVEL.

CHARACTERISTICS

CIRCUIT DIAGRAM

Technical drawing of a mechanical assembly, likely a valve or actuator, with the following dimensions and labels:

- 10-32 UNF-2A THREAD
- CORROSION RESISTANT STEEL ADJUSTING WORM GEAR
- CORROSION RESISTANT STEEL SHAFT, BUSHING AND PINS
- .675 REF
- .34
- .53
- .630 MAX
- 3.410 MAX
- 2.156 MAX
- .047 DIA HOLE FOR WIRE LOCKING (3)
- MICRO SWITCH FREEPORT ILL U.S.A.
- (2) NO. 20 WIRE LEAD PER MIL-W-22759/7 MARKED WITH CIRCUIT IDENTIFICATION AND WIRE GAGE (1-20, 3-20) PER SPEC MIL-W-5088

Exploded view diagram of a threaded assembly. The diagram shows a cylindrical base with a vertical slot. A stack of components is shown above the base, including a lock washer, a hex nut, a lock washer, a pin, and a threaded bolt. Callouts provide detailed descriptions for each part:

- CORROSION RESISTANT STEEL LOCKING NUT, .37 ACROSS FLATS (MS 21083-N3) △7
- CORROSION RESISTANT STEEL WASHER, .438 DIA X .032 THICK (AN960-CIOL) △7
- CORROSION RESISTANT STEEL INTERNAL TOOTH LOCKWASHER, .60 DIA X .018 REF THICK (MS 35333-136) △7
- .140 DIA X .062 HIGH PINS LOCATED ON .765 DIA CENTERS (2)
- CORROSION RESISTANT STEEL HEX NUT, .62 ACROSS FLATS X .125 THICK △7
- 15/32-32 UNS THREAD TO WITHIN .062 OF SHOULDER
- CORROSION RESISTANT STEEL AND PINS △7

Text on the left side of the diagram includes:
STANT STEEL
AND PINS
PER
ATION AND
(20) PER

Text on the right side of the diagram includes:
CIRCUIT DIAGRAM

NOTES

NOTES

- 1 - CORROSION RESISTANT STEEL ENCLOSURE
- 2 - TOTAL TRAVEL OF ROLLER LEVER IS $45^\circ \pm 3^\circ$ IN COUNTER-CLOCKWISE DIRECTION ONLY WITH SPRING RETURN TO NEUTRAL
- 3 - SWITCH SEALED PER MIL-PRF-8805 SYMBOL 4
- 4 - NOTED ELECTRICAL RATINGS APPLY AS SPECIFIED IN MIL-PRF-8805/48 UP TO 185°F
- 5 DO NOT APPLY MORE THAN 20-25 INCH-POUNDS OF TORQUE WHEN TIGHTENING LOCKING NUT
- 6 - CIRCUIT DIAGRAM, CATALOG LISTING, AND DATE CODE ARE SHOWN ON NAMEPLATE
- 7 HARDWARE MAY BE PACKAGED UNASSEMBLED PER MIL-PRF-8805

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