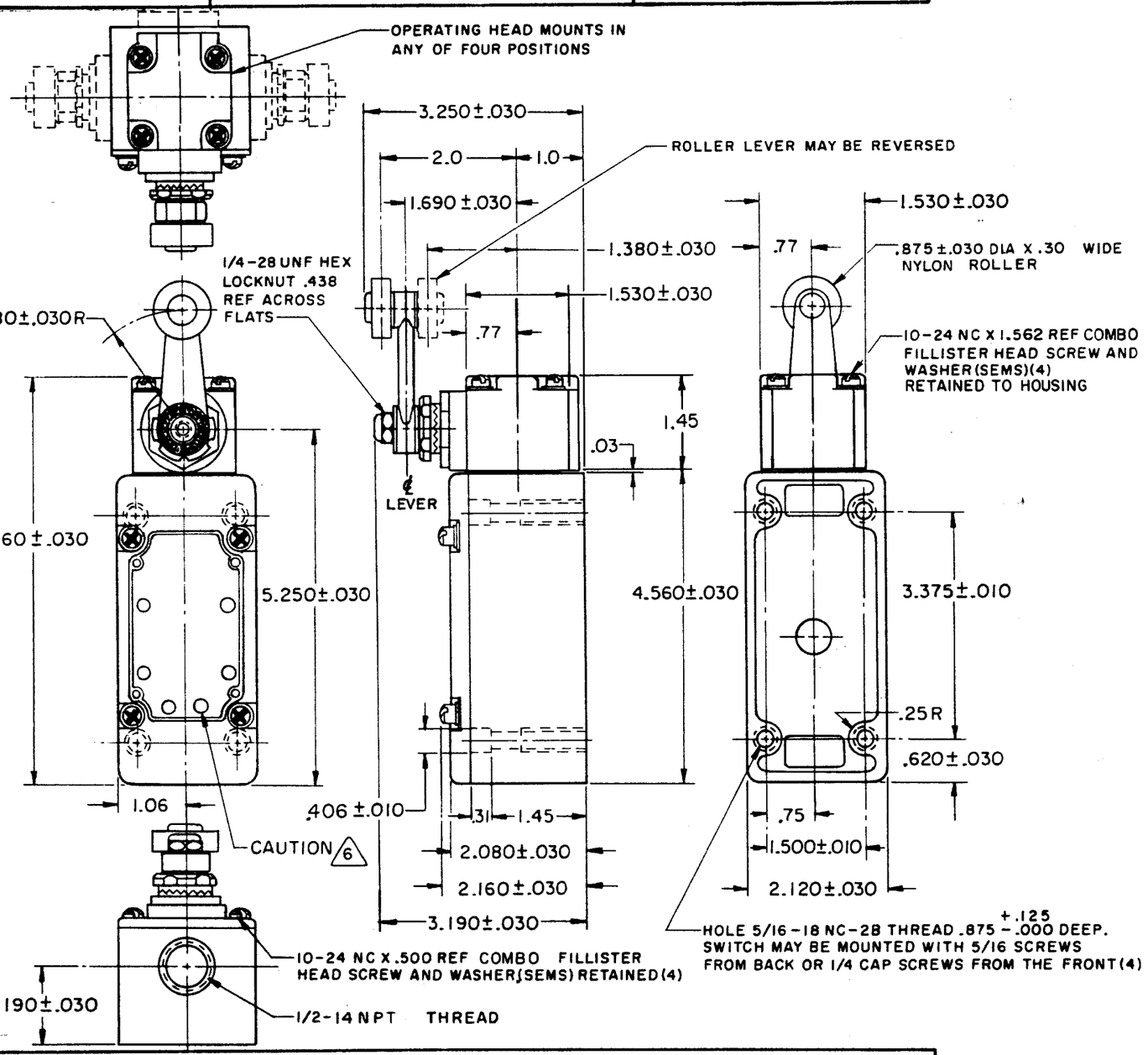
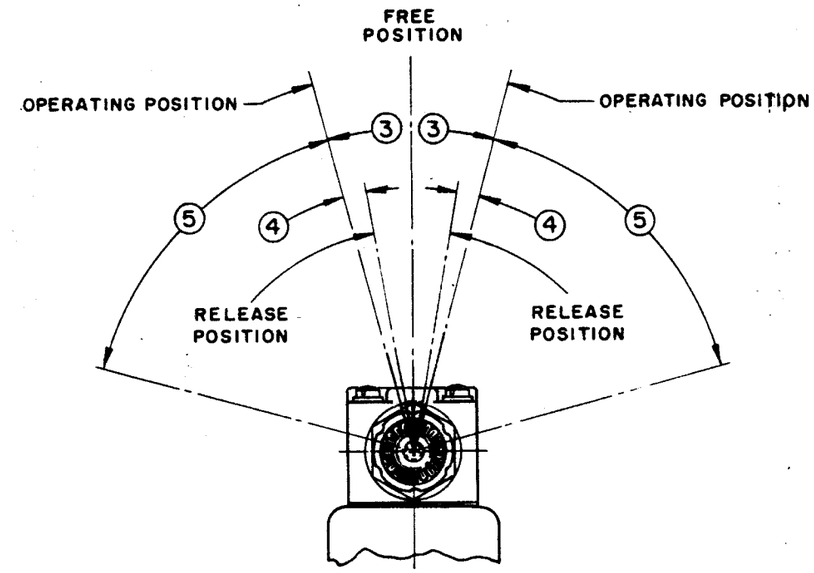
**MICRO SWITCH**
A DIVISION OF MINNEAPOLIS-HONEYWELL REGULATOR COMPANY
FREEPORT, ILLINOIS
FED. MFR. CODE 91929

# SWITCH-ENCLOSED

CATALOG LISTING
**51ML7-E1**




NOTES

1 - FOR USE IN CLASS I, GROUPS C AND D VAPOR-AIR ATMOSPHERE, AND CLASS 2 GROUPS E,F AND G DUST-AIR ATMOSPHERE

2 SWITCH IS ASSEMBLED FOR ACTUATION IN EITHER DIRECTION

3 TO CONVERT SWITCH FOR ACTUATION EITHER CLOCKWISE OR COUNTER-CLOCKWISE DIRECTION ONLY, REMOVE THE HEAD AND SLIDE THE CAM TOWARD THE REAR OF THE HEAD SUFFICIENTLY TO DISENGAGE FROM THE FLATS ON THE SHAFT. ROTATE THE CAM 90° IN THE OPPOSITE DIRECTION OF THE ACTUATION DESIRED AND RE-ENGAGE THE CAM WITH THE FLATS ON THE SHAFT

4 - LEVER MAY BE POSITIVELY LOCKED AT INTERVALS OF APPROX 0.4° (870 POSITIONS)

5 - LEVER MAY BE ADJUSTED TO ACTUATE THE SWITCH IN THE CLOCKWISE DIRECTION ONLY, THE COUNTER-CLOCKWISE DIRECTION ONLY OR IN BOTH DIRECTIONS 2 3

6 IN ORDER TO MAINTAIN THE EXPLOSION PROOF PROPERTIES OF THIS UNIT DO NOT OBSTRUCT THE HOLES IN THE COVER PLATE

7 BASIC SWITCHING ELEMENT LISTED BY UNDERWRITERS' LABORATORIES, INC.

8 - IT IS ESSENTIAL THAT THE CONDUIT OPENING BE PROPERLY SEALED IN ORDER TO MAINTAIN THE EXPLOSION PROOF PROPERTIES

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## CHARACTERISTICS

OPERATING FORCE — — — — 3 LB MAX
FULL OVERTRAVEL FORCE — — 4 LB MAX
RELEASE FORCE — — — — — 1/4 LB MIN
PRETRAVEL — — 3 — — — — — 20° MAX
DIFFERENTIAL TRAVEL — 4 — — 15° MAX
OVERTRAVEL — — — 5 — — — 50° MIN

SWITCH-BASIC REPLACEMENT-DT-2R711-A7

## ELECTRICAL DATA

CONTACT ARRANGEMENT
D P D T

10 A-125 OR 250 VAC
0.3 A-125 VDC ; 0.15 A-250 VDC

7

SCALE 1/2 TO 1
DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:

| | | |
|---|---|---|
| ONE PLACE | (.0) | ±.030 |
| TWO PLACE | (.00) | ±.015 |
| THREE PLACE | (.000) | ±.005 |
| ANGLES | | ± |

WEIGHT

M 51ML7-E1
DRAWING NUMBER
RELEASE NO. SR 9897
REPLACES
ISSUE 12 13
CHECK
REVISIONS
A SR 9897
B RER 31 OCT 61 CO 8841
C HBW 2 NOV 64 CO 20578
D MBF 1 DEC 65 CO 28121
E SRH 9 NOV 70 CO 52194-D
F TRF 23 SEPT 83 CO 58367
G JAS 11 NOV 85 CO 55051-C
H TAD 6 JAN 86 CO 58909
J TSK 29 JAN 86 CO 63739
K DJS 15 JUN 88 CO 74287
GJW 16 APR 93
DRAWN RER 31 OCT 61
FO-50378-003