

**MICRO SWITCH**  
FREEPORT ILLINOIS, U.S.A.  
A DIVISION OF HONEYWELL  
FED. MFG. CODE 91929

**SWITCH-ENCLOSED**

CATALOG LISTING  
**21EN9-R7**

**21EN9-R7**

**M**

DRAWING  
NUMBER

ISSUE

12/14

REPLACES

RELEASE NO.

CHECK

REVISIONS

A C044351

J A P

11 SEPT 79

B C047573

PART 4

R J H

7 AUG 80

C C048563

G J W

6 FEB 84

D C068501

T S M

22 FEB 91

E C071719

L J F

3 JAN 92

CHECK

12 SEP 79

C E E

C E E

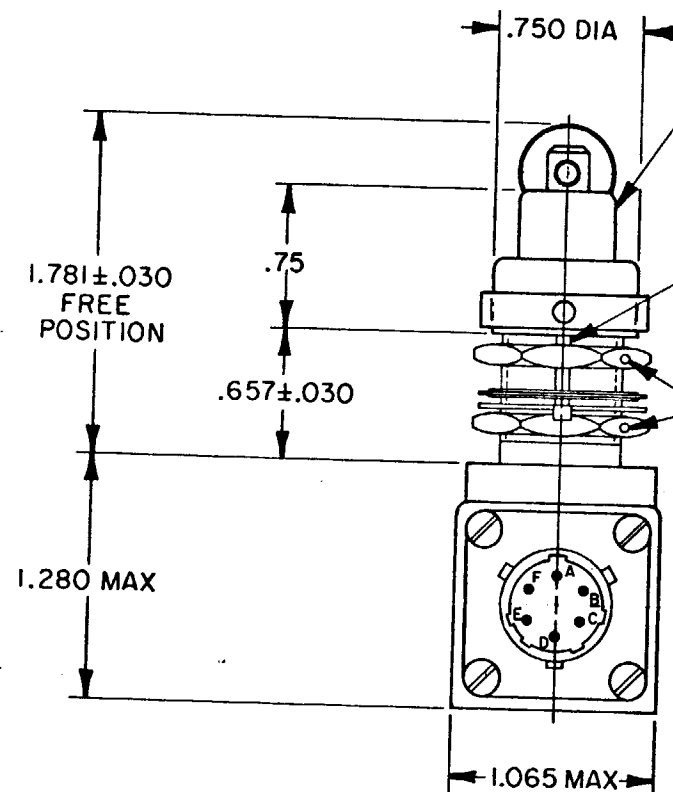
C E E

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C E E

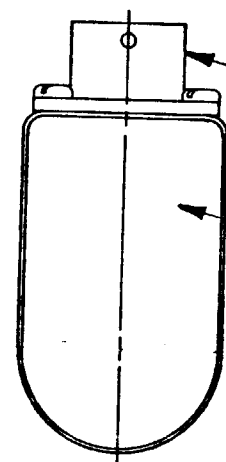
C E E



ROLLER GUIDE MAY BE LOCKED IN INCREMENTS OF 45° AZIMUTH. IT MAY ALSO BE UNSCREWED AND REMOVED FROM BUSHING TO FACILITATE INSTALLATION

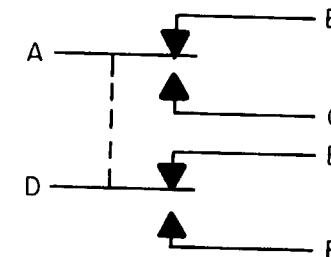
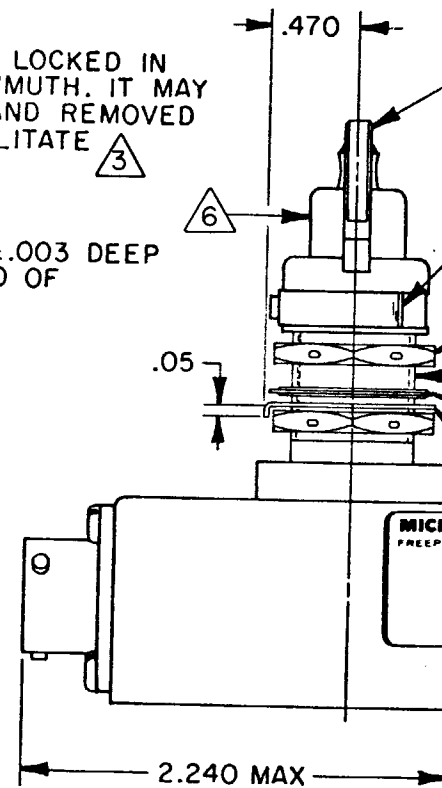
.072±.004 WIDE X .038±.003 DEEP KEYWAY TO WITHIN .250 OF SHOULDER

.047 DIA HOLE FOR WIRE LOCKING



CONNECTOR TO MATE WITH MS 3476E10-6S

LEADS EMBEDDED AND SEALED WITH EPOXY CASTING RESIN AND SEALER



CIRCUIT DIAGRAM

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THIRD ANGLE PROJECTION

SCALE FULL

DO NOT SCALE PRINT

TOLERANCES

APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE 1

DIM.	TOL.	DIM.	TOL.
NO PLACES	1/04	1/04	0.01
ONE PLACE	0.01	0.01	0.01
TWO PLACES	0.01	0.01	0.01
THREE PLACES	0.01	0.01	0.01
ANGLES	0.01	0.01	0.01

DESIGN UNITS ☐ SI METRIC ☒ US CUSTOMARY

RAW MATERIAL-COMMERCIAL STANDARD

MICRO SWITCH STANDARDS APPLY

DIMENSIONS ARE TO BE MET BEFORE

PROTECTIVE COATINGS ARE APPLIED

WEIGHT 6 OZ MAX

**CHARACTERISTICS**

OPERATING FORCE ----- 6-12 LB  
FULL OVERTRAVEL FORCE ----- 30 LB MAX  
RELEASE FORCE ----- 4 LB MIN  
PRETRAVEL ----- .040 MAX  
DIFFERENTIAL TRAVEL ----- .020 MAX  
OVERTRAVEL ----- .250 MIN

**ELECTRICAL DATA**

CONTACT ARRANGEMENT  
S P D T (2)

LOAD  
RES  
IND  
MOTOR

28 VDC  
SEA LEVEL 50,000 FT.  
4 4  
2 2  
4

**NOTES**

- 1 - CORROSION RESISTANT STEEL ENCLOSURE
- 2 - SWITCH SEALED PER MIL-S-8805 SYMBOL 4
- 3 - 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
- 4 - CIRCUIT DIAGRAM AND CATALOG LISTING ARE SHOWN ON NAMEPLATE
- 5 - COINCIDENCE OF OPERATING AND RELEASING POINTS: .010 INCH OF PLUNGER TRAVEL
- 6 - HARDWARE MAY BE PACKAGED UNASSEMBLED PER MIL-S-8805