

MICRO SWITCH

1001SD Series

solid-state keyswitch modules

Charts 1–11, 13 (M)

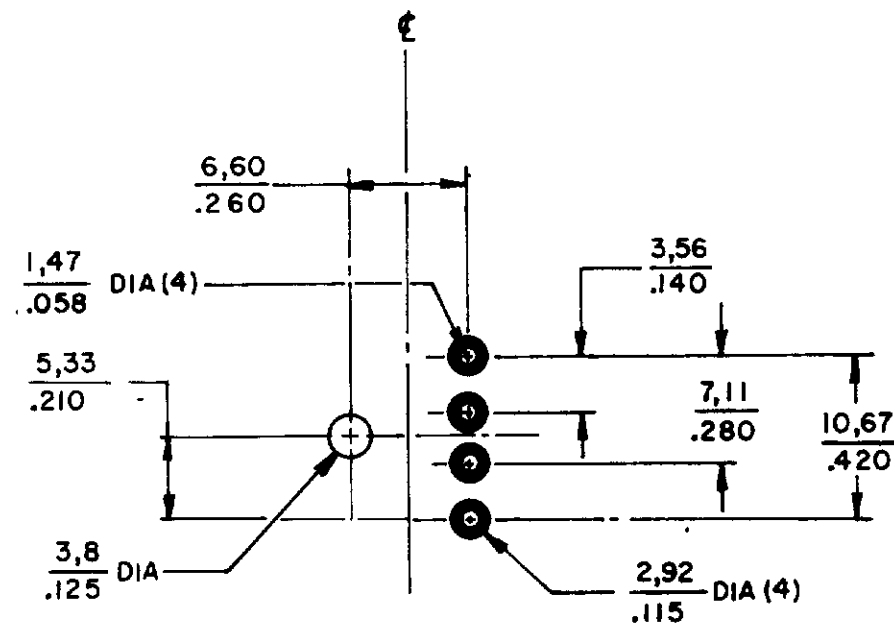
Courtesy of **Honeywell**

ELECTRICAL, MECHANICAL & TEMPERATURE
CHARACTERISTICS PER SECTION "D" OF
FOLLOWING CS

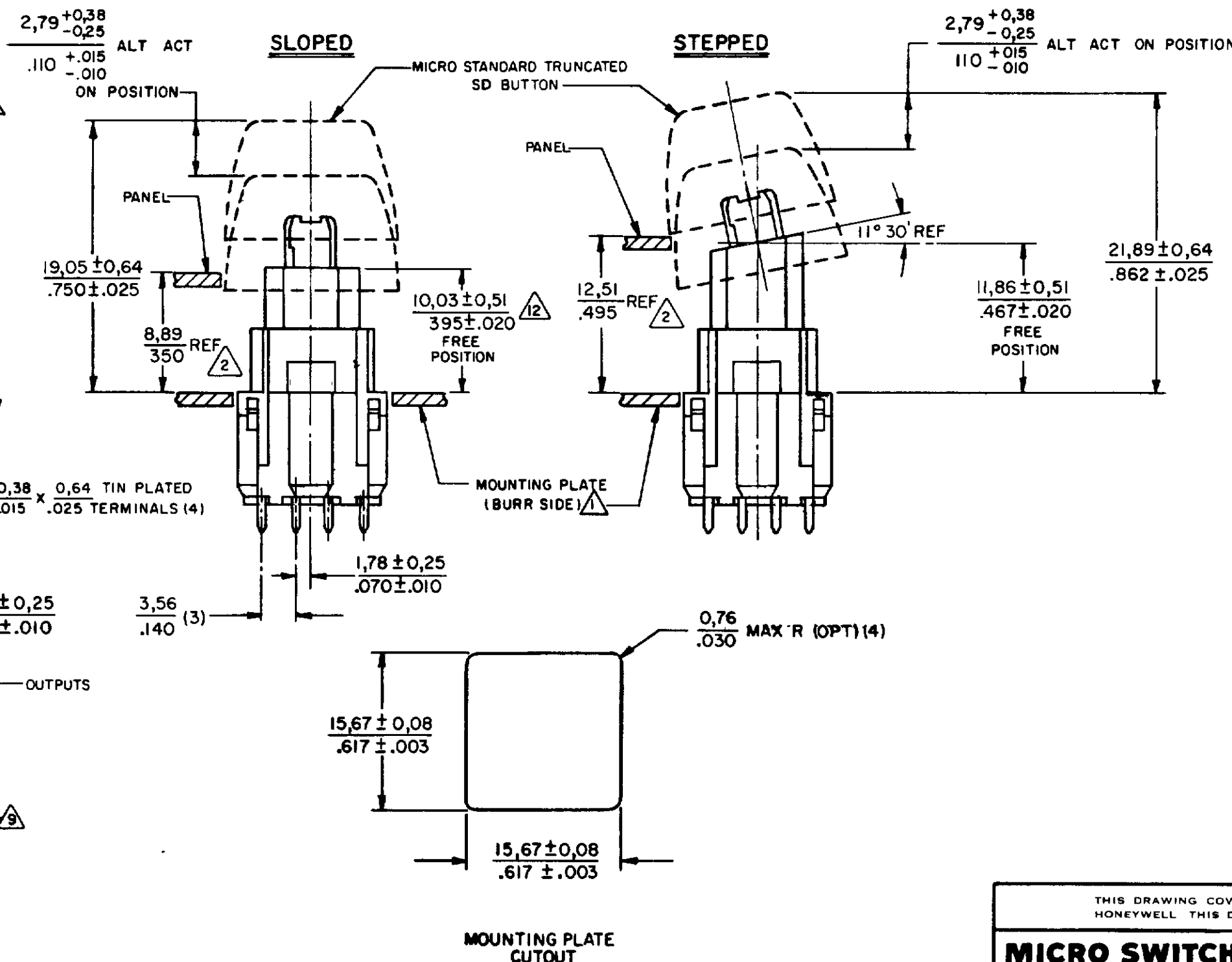
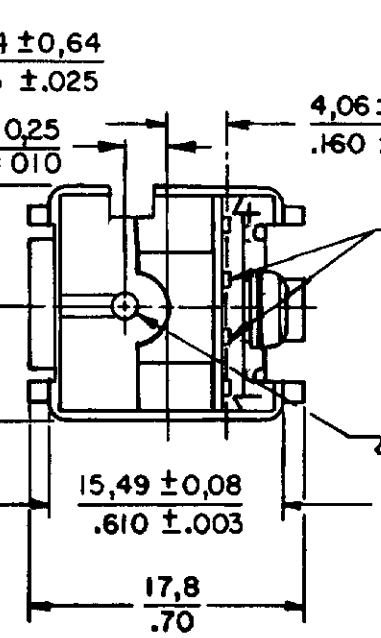
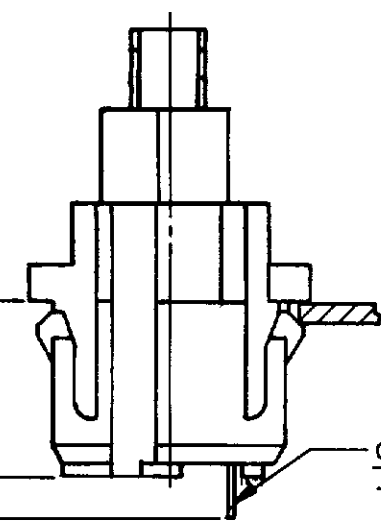
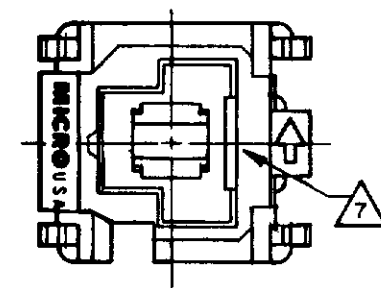
SINK LEVEL	CS 044 116
SOURCE LEVEL	CS 044 45
SINK PULSE	CS 044 118
LOGIC SCAN	CS 044 117
TIMED REPEAT	CS 044 48

1001SD

ACTION		PLUNGER TYPE		NOMINAL OPERATING FORCE		SWITCH OUTPUT	
MOMENTARY	1	SLOPED	A	.361N/1.3 OZ	1	SINK LEVEL	A
ALTERNATE ACTION	2	STEPPED	B	.556N/2.0 OZ	2	SINK PULSE	B
SUPPORT	3	FLAT TOP	G	.695N/2.5 OZ	3	SOURCE LEVEL	C
		FLAT TOP	F	1.668N/6.0 OZ	6	TIMED REPEAT	K
		SPECIAL (NCR)	C	2.224N/8.0 OZ	8	LOGIC SCAN	S
				NO SPRING	4	NONE	D
				973 N/3.5 OZ	5		



TYPICAL PC BOARD DETAIL



NOTES

- 1 MOUNTING PLATE THICKNESS INCLUDING BURR IS 1.27⁺.20/-0.08, .050⁺.008/-0.003
- 2 RECOMMENDED PANEL DIMENSION
- 3 DO NOT EXPOSE SWITCH TO PRINTED CIRCUIT BOARD CLEANING SOLVENT
- 4 WHEN HAND SOLDERING THE MODULE LEADS TO THE PRINTED CIRCUIT BOARD USE A 1/8 INCH DIAMETER THERMOSTATICALLY CONTROLLED TIP OF 500°F/260°C AND HOLD IT TO THE TERMINALS NO LONGER THAN 2 SECONDS
- 5 LINEAR MEASURE $\frac{\text{mm}}{\text{IN.}}$ OR mm/IN.
- 6 USE WITH THREE UNIT BUTTON
- 7 IDENTIFICATION CODE LOCATED IN THIS AREA.
- 8 IDENTIFICATION CODE
- 9 HOLE FOR NO. 2 SCREW. SCREW NOT TO ENTER MODULE IN EXCESS OF 3.18/.125
- 10 THIS "M" DRAWING APPLIES TO SAME LISTINGS WITH (-A) OR (-R) SUFFIX
- 11 FORCE AT .090 INCHES (2.29 mm) BASIC TRAVEL
- 12 9.14 ± 0.51/.360 ± .020 ON FLAT TOP MODULE

THIRD ANGLE PROJECTION			
SCALE 2 TO 1			
DO NOT SCALE PRINT			
TOLERANCES			
APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE:			
DIM	TOL	DIM	TOL
IN	MM	IN	MM
NO PLACES	1	17.04	0.4103
ONE PLACE	0.2	0.4103	0.387015
TWO PLACES	0.02	0.15100	0.15100
THREE PLACES	0.002	0.15100	0.15100
ANGLES			
DESIGN UNITS	SIMETRIC	US CUSTOMARY	
RAW MATERIAL-COMMERCIAL STANDARD			
MICRO SWITCH STANDARDS APPLY			
DIMENSIONS ARE TO BE MET BEFORE PROTECTIVE COATINGS ARE APPLIED			
WEIGHT			

THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF MICRO SWITCH A DIVISION OF HONEYWELL THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH

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

SWITCH-SOLID STATE
LOW PROFILE

CATALOG LISTING
1001 SD SERIES
CHART 1, PAGE 1

1001SD SERIES
CHART 1, PAGE 1

DRAWING NUMBER
31313



REVISIONS
A CO 3438
B CO 3438
C CO 37160
D CO 37160
E CO 37160
F CO 37160
G CO 37160
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J CO 37160
K CO 37160
L CO 37160
M CO 37160
N CO 37160
O CO 37160
P CO 37160
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Y CO 37160
Z CO 37160

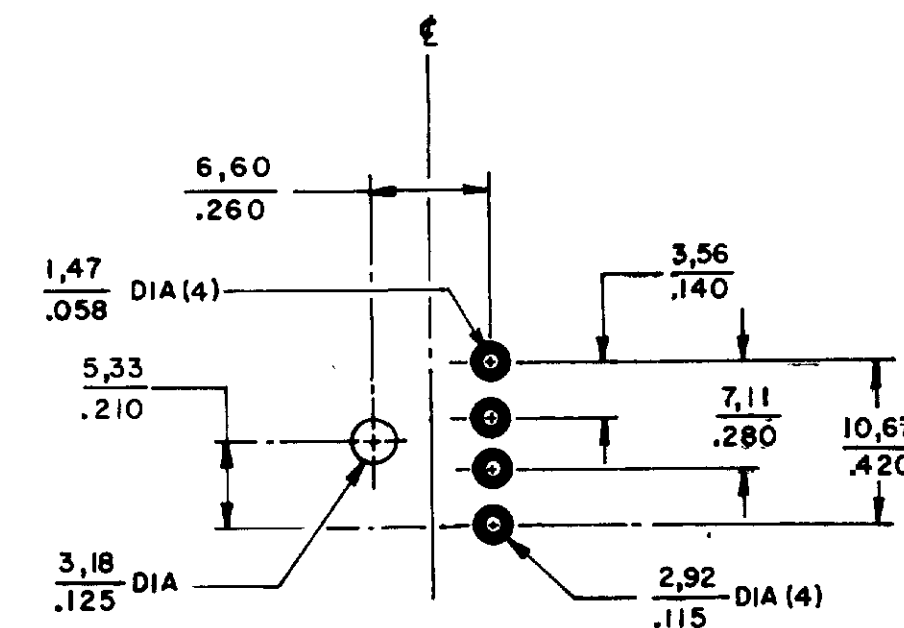
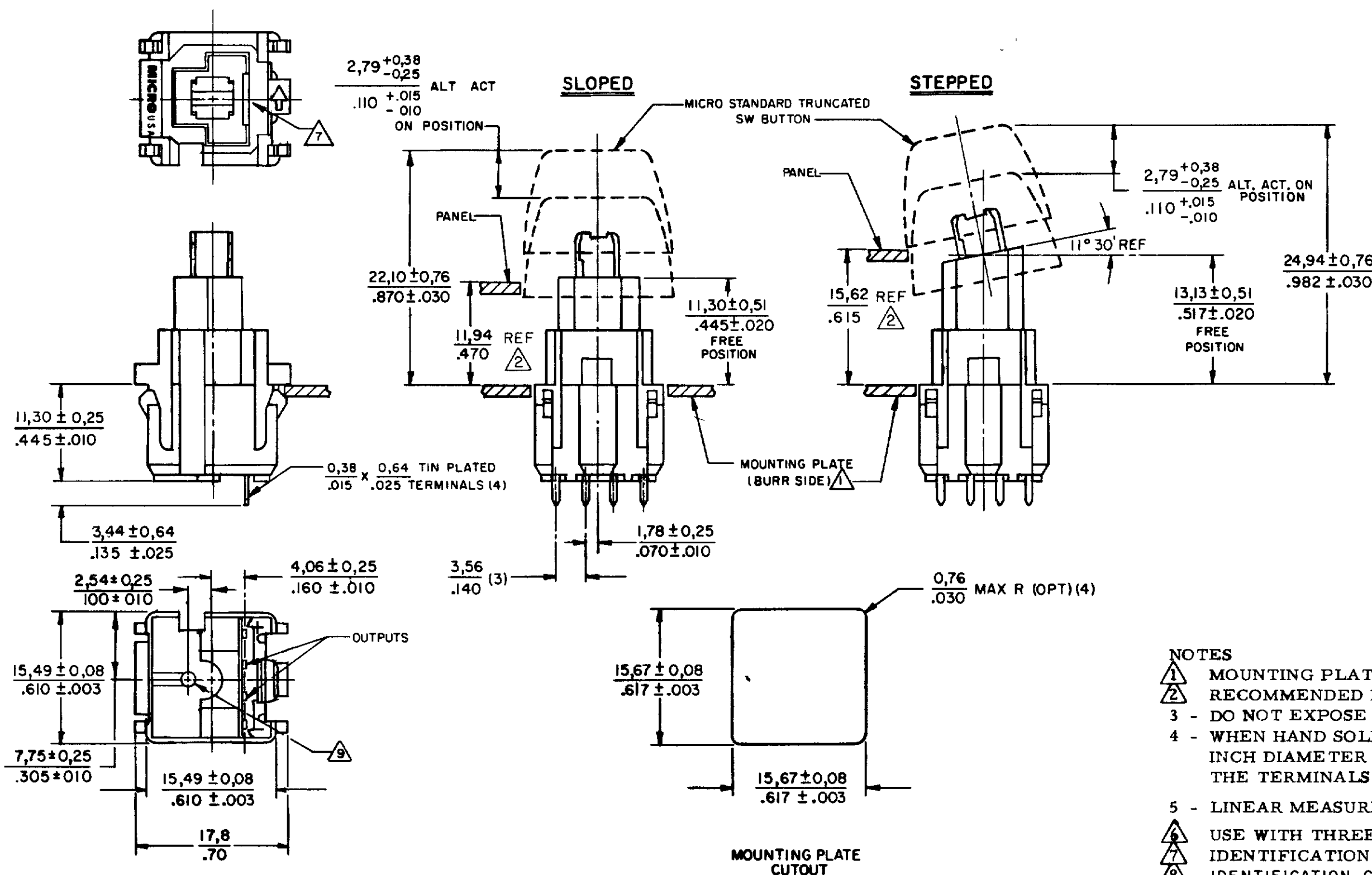
FO-52863-A
DRAWN
RER 125 SEP 75
CHECK
DAN 1 OCT 75

ELECTRICAL, MECHANICAL & TEMPERATURE
CHARACTERISTICS PER SECTION "D" OF
FOLLOWING CS

SINK LEVEL	CS 044 116
SOURCE LEVEL	CS 044 45
SINK PULSE	CS 044 118
LOGIC SCAN	CS 044 117
TIMED REPEAT	CS 044 48

100ISD 

ACTION		PLUNGER TYPE		NOMINAL OPERATING FORCE 		SWITCH OUTPUT	
MOMENTARY	4	SLOPED	A	.361N/1.3 OZ	1	SINK LEVEL	A
ALTERNATE ACTION	5	STEPPED	B	.556N/2.0 OZ	2	SINK PULSE	B
SUPPORT	6	FLAT TOP	G	.695N/2.5 OZ	3	SOURCE LEVEL	C
		FLAT - STEPPED	N	1.668N/6.0 OZ	6	TIMED REPEAT	K
		SLOPED	S	2.224N/8.0 OZ	8	LOGIC SCAN	S
		STEPPED	T	NO SPRING 	4	NONE	D
				.973N/3.5oz	5		



TYPICAL PC BOARD DETAIL

NOTES

- 1 MOUNTING PLATE THICKNESS INCLUDING BURR IS 1.27 ^{+0.20}/_{-0.08} / .050 ^{+0.008}/_{-0.003}
- 2 RECOMMENDED PANEL DIMENSION
- 3 - DO NOT EXPOSE SWITCH TO PRINTED CIRCUIT BOARD CLEANING SOLVENT
- 4 - WHEN HAND SOLDERING THE MODULE LEADS TO THE PRINTED CIRCUIT BOARD USE A 1/8 INCH DIAMETER THERMOSTATICALLY CONTROLLED TIP OF 500°F/260°C AND HOLD IT TO THE TERMINALS NO LONGER THAN 2 SECONDS
- 5 - LINEAR MEASURE ^{mm}/_{IN} OR mm/IN
- 6 USE WITH THREE UNIT BUTTON
- 7 IDENTIFICATION CODE LOCATED IN THIS AREA.
- 8 IDENTIFICATION CODE
- 9 HOLE FOR NO. 2 SCREW. SCREW NOT TO ENTER MODULE IN EXCESS OF 3.18/.125
- 10 THIS "M" DRAWING APPLIES TO SAME LISTINGS WITH (-A) OR (-R) SUFFIX
- 11 FORCE AT .090 INCHES (2.29 mm) BASIC TRAVEL

100ISD SERIES
CHART 2
RELEASE NO PR-5149
DRAWING NUMBER
X X X X X
REVISIONS
A PR-5360
B PR-5363
C PR-5364
D PR-5365
E PR-5366
F PR-5367
G PR-5368
H PR-5369
I PR-5370
J PR-5371
K PR-5372
L PR-5373
M PR-5374
N PR-5375
O PR-5376
P PR-5377
Q PR-5378
R PR-5379
S PR-5380
T PR-5381
U PR-5382
V PR-5383
W PR-5384
X PR-5385
Y PR-5386
Z PR-5387
FO-52843
DRAWN
R E R 24 SEP 75
CHECKED
13 MAR 76

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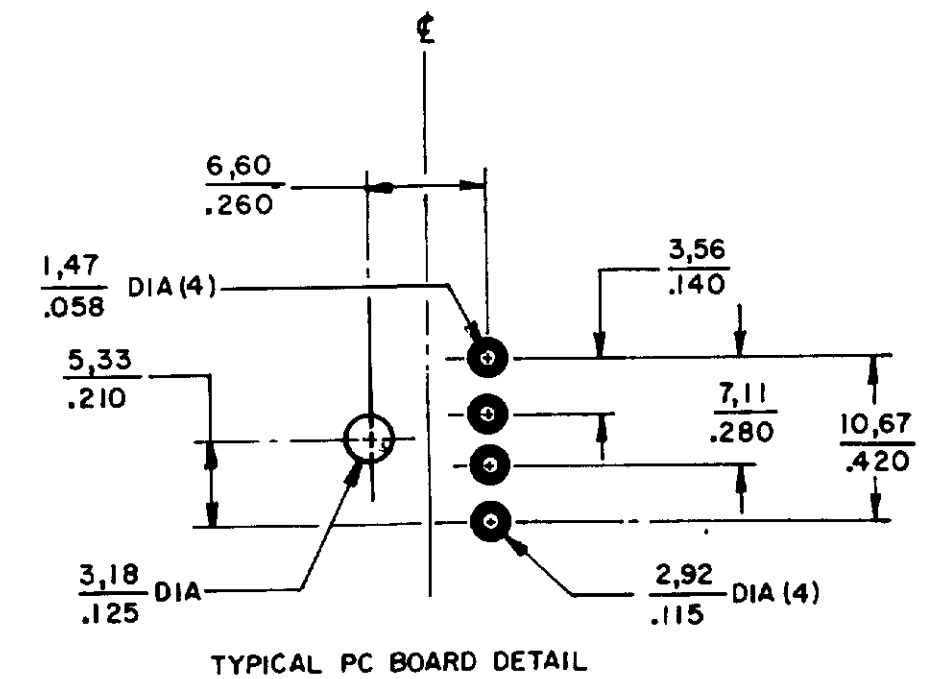
MICRO SWITCH
FREEPORT ILLINOIS U.S.A.
A DIVISION OF HONEYWELL
FED. MFG. CODE 91220

SWITCH-SOLID STATE
LOW PROFILE

CATALOG LISTING
100ISD SERIES
CHART 2

SCALE 2 TO 1
DO NOT SCALE PRINT
UNLESS OTHERWISE NOTED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
ONE PLACE (.01) 2.000
TWO PLACE (.001) 2.015
THREE PLACE (.000) 2.005
ANGLES 2
WEIGHT

SINK LEVEL	CS 044 116
SOURCE LEVEL	CS 044 45
SINK PULSE	CS 044 118
LOGIC SCAN	CS 044 117
TIMED REPEAT	CS 044 48

[illegible]

- NOTES**
- 1** MOUNTING PLATE THICKNESS INCLUDING BURR IS
 $1.27 \frac{+.20}{-.08} / .050 \frac{+.008}{-.003}$
- 2** RECOMMENDED PANEL DIMENSION
- 3 - DO NOT EXPOSE SWITCH TO PRINTED CIRCUIT BOARD CLEANING SOLVENT**
- 4 - WHEN HAND SOLDERING THE MODULE LEADS TO THE PRINTED CIRCUIT BOARD USE A 1/8 INCH DIAMETER THERMOSTATICALLY CONTROLLED TIP OF 500°F / 260°C AND HOLD IT TO THE TERMINALS NO LONGER THAN 2 SECONDS**
- 5 - LINEAR MEASURE $\frac{\text{mm}}{\text{IN}}$ OR mm/IN**
- 6** IDENTIFICATION CODE LOCATED IN THIS AREA
- 7** HOLE FOR NO. 2 SELF TAPPING SCREW.
SCREW NOT TO ENTER MODULE IN EXCESS OF $\frac{3.18}{.125}$
- 8** THIS "M" DRAWING APPLIES TO SAME LISTINGS WITH (-A) OR (-R) SUFFIX
- 9** FORCE AT .090 INCHES (2.29 mm) BASIC TRAVEL
- 10** IDENTIFICATION CODE

SCALE 2 TO 1	
DO NOT SCALE PRINT	
UNLESS OTHERWISE NOTED	
DIMENSIONS ARE IN INCHES	
TOLERANCES ARE:	
ONE PLACE (0)	± .030
TWO PLACE (00)	± .015
THREE PLACE (.000)	± .005
ANGLES	2
WEIGHT	

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FED. MFG. CODE 81929

**SWITCH-SOLID STATE
LOW PROFILE**

CATALOG LISTING
1001 SD SERIES
CHART 3

**DI SD SERIES
CHART 3**

M

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REVISIONS

A	CO-36204 3MA 10 MAR 76
B	CO37160 C J H 3 JUN 76
C	CO38181 C E B 7 FEB 77
D	PR-6960 W L W 9 FEB 78
E	CO33926 J S 14 MAR 78
F	CO 45218 W J M 10 JAN 79
G	CO 47808 S L B 17 JUNE 80
H	CO51843 T S K 14 SEPT 82
J	CO53594 K E W 24 AUG 83

FO-52062

RELEASE NO. PR-5149

ЧЕБЕК

CHECK

2 2

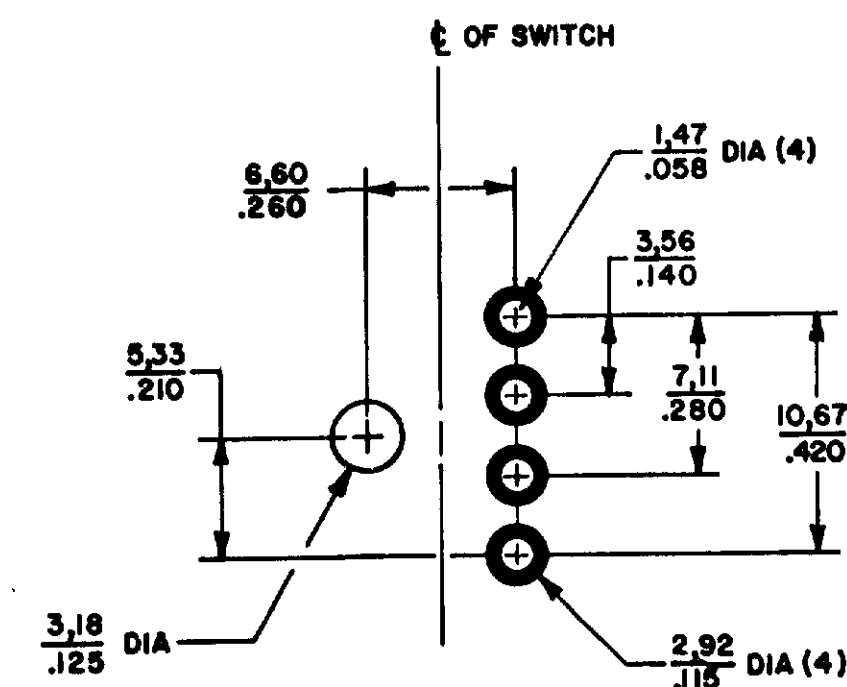
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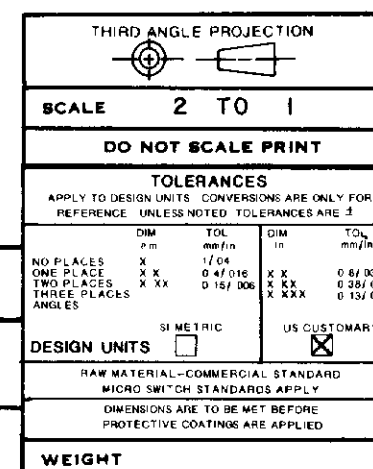
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SINK LEVEL	CS 044 116
SOURCE LEVEL	CS 044 45
SINK PULSE	CS 044 118
LOGIC SCAN	CS 044 117
TIMED REPEAT	CS 044 48

[illegible]

TYPICAL PC BOARD DETAIL
SCALE 3:1

- NOTES**
- 1** MOUNTING PLATE THICKNESS INCLUDING BURR IS
1,27 $\begin{smallmatrix} +.20 \\ -.08 \end{smallmatrix}$ / $\begin{smallmatrix} +.008 \\ -.003 \end{smallmatrix}$
- 2** RECOMMENDED PANEL DIMENSION
- 3** - DO NOT EXPOSE SWITCH TO PRINTED CIRCUIT BOARD
CLEANING SOLVENT
- 4** - WHEN HAND SOLDERING THE MODULE LEADS TO THE
PRINTED CIRCUIT BOARD USE A 1/8 INCH DIAMETER
THERMOSTATICALLY CONTROLLED TIP OF 500°F/260°C AND
HOLD IT TO THE TERMINALS NO LONGER THAN 2 SECONDS
- 5** - LINEAR MEASURE $\frac{\text{mm}}{\text{IN}}$ OR mm/IN
- 6** IDENTIFICATION CODE LOCATED IN THIS AREA.
- 7** HOLE FOR NO. 2 SELF TAPPING SCREW
SCREW NOT TO ENTER MODULE IN EXCESS OF $\frac{3,18}{.125}$
- 8** THIS "M" DRAWINGS APPLIES TO SAME LISTINGS WITH (-A) OR
(-R) SUFFIX
- 9** FORCE AT .090 INCHES (2.29 mm) BASIC TRAVEL
IDENTIFICATION CODE



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FED. REG. CODE 51929

SWITCH-SOLID STATE
LOW PROFILE

CATALOG LISTING
1001 SD SERIES
CHART 5

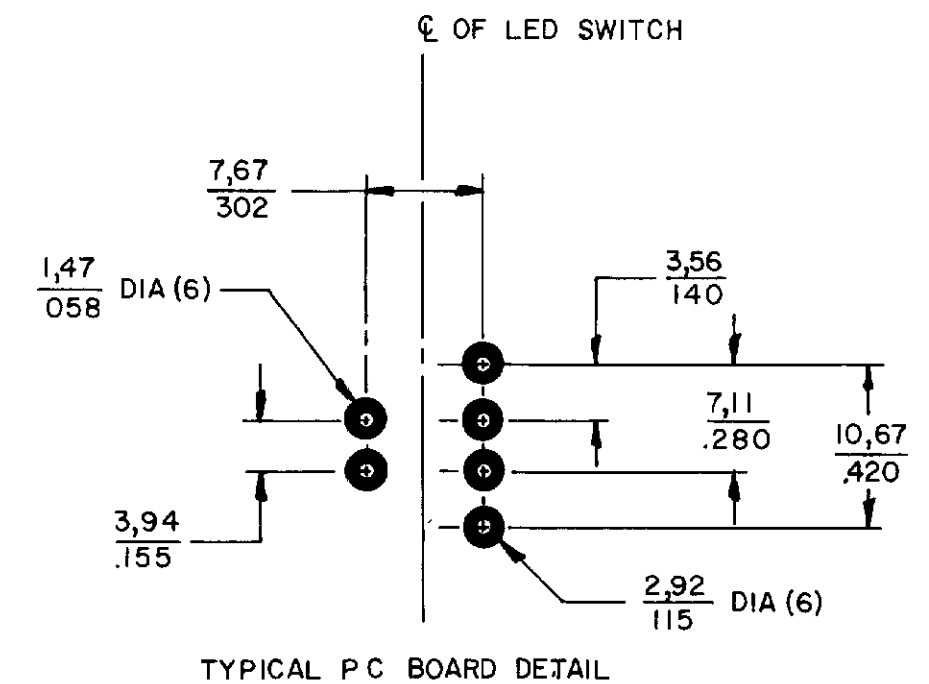
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RAW MATERIAL-COMMERCIAL STANDARD		
MICRO SWITCH STANDARDS APPLY		
DIMENSIONS ARE TO BE MET BEFORE		
PROTECTIVE COATINGS ARE APPLIED		
WEIGHT		

1001 SD SERIES		DRAWING NUMBER		M		CHART 5		RELEASE NO		PR - 5284		REPLACES																																																																																																																																																																			
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LED ELECTRICAL
SPECIFICATIONS

CS 044 57

A diagram of a Micro-USB connector. Callout 6 points to the top metal shield. Callout 7 points to the central pin assembly.



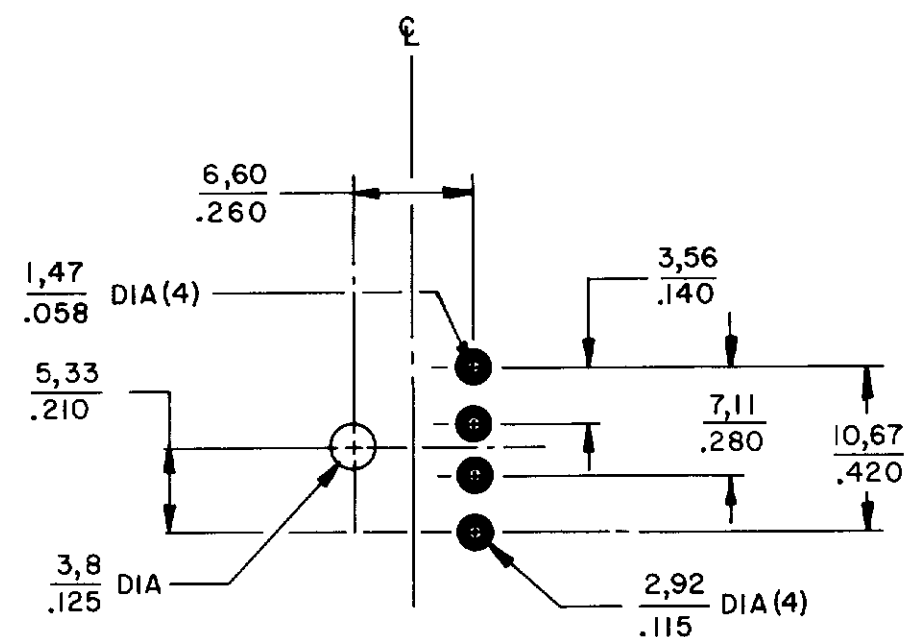
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|----------------|--|----------------|--|---------|--|---------|--|------------|--|---------|--|-----------|--|
| 1001 SD SERIES | | DRAWING NUMBER | | M | | CHART 6 | | RELEASE NO | | PR-5471 | | REPLACES | |
| ISSUE | | X | | X | | X | | CHECK | | | | | |
| REVISONS | | A | | C037160 | | C J H | | 3 JUN 76 | | | | | |
| | | B | | PR-5736 | | C E B | | 7 FEB 77 | | | | | |
| | | C | | C038181 | | P | | 23 AUG 78 | | | | | |
| | | D | | PR-6960 | | F W B | | 9 FEB 78 | | | | | |
| | | E | | C038926 | | JUN | | 14 MAR 78 | | CHECK | | 15 MAR 76 | |
| | | F | | C 45218 | | JAN 79 | | | | | | | |
| | | G | | C 47608 | | JUNE 80 | | | | | | | |
| | | H | | C051843 | | SEP 82 | | | | | | | |
| | | I | | C055594 | | AUG 83 | | | | | | | |
| | | J | | C055594 | | AUG 83 | | | | | | | |
| | | K | | W E W | | AUG 83 | | | | | | | |
| | | L | | AUG 83 | | | | | | | | | |
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| | | R | | AUG 83 | | | | | | | | | |
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| | | T | | AUG 83 | | | | | | | | | |
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| | | V | | AUG 83 | | | | | | | | | |
| | | W | | AUG 83 | | | | | | | | | |
| | | X | | AUG 83 | | | | | | | | | |
| | | Y | | AUG 83 | | | | | | | | | |
| | | Z | | AUG 83 | | | | | | | | | |
| | | AA | | AUG 83 | | | | | | | | | |
| | | AB | | AUG 83 | | | | | | | | | |
| | | AC | | AUG 83 | | | | | | | | | |
| | | AD | | AUG 83 | | | | | | | | | |
| | | AE | | AUG 83 | | | | | | | | | |
| | | AF | | AUG 83 | | | | | | | | | |
| | | AG | | AUG 83 | | | | | | | | | |
| | | AH | | AUG 83 | | | | | | | | | |
| | | AI | | AUG 83 | | | | | | | | | |
| | | AJ | | AUG 83 | | | | | | | | | |
| | | AK | | AUG 83 | | | | | | | | | |
| | | AL | | AUG 83 | | | | | | | | | |
| | | AM | | AUG 83 | | | | | | | | | |
| | | AN | | AUG 83 | | | | | | | | | |
| | | AO | | AUG 83 | | | | | | | | | |
| | | AP | | AUG 83 | | | | | | | | | |
| | | AQ | | AUG 83 | | | | | | | | | |
| | | AR | | AUG 83 | | | | | | | | | |
| | | AS | | AUG 83 | | | | | | | | | |
| | | AT | | AUG 83 | | | | | | | | | |
| | | AU | | AUG 83 | | | | | | | | | |
| | | AV | | AUG 83 | | | | | | | | | |
| | | AW | | AUG 83 | | | | | | | | | |
| | | AX | | AUG 83 | | | | | | | | | |
| | | AY | | AUG 83 | | | | | | | | | |
| | | AZ | | AUG 83 | | | | | | | | | |
| | | BA | | AUG 83 | | | | | | | | | |
| | | BB | | AUG 83 | | | | | | | | | |

THIRD ANGLE PROJECTION					
					
SCALE 2 TO 1					
DO NOT SCALE PRINT					
TOLERANCES					
APPLY TO DESIGN UNITS CONVERSIONS ARE FOR REFERENCE UNLESS NOTED TOLERANCES ARE \pm					
	DIM	TOL	DIM	TOL	
	IN	FRA	IN	FRA	MM
ONE PLACES	X	1/64	X	1/64	X 0.020
TWO PLACES	X XX	0.0010	X XX	0.0010	X 0.0010
THREE PLACES		0.0005	X XX	0.0005	X 0.0005
ANNULS					
DESIGN UNITS <input type="checkbox"/> METRIC			US CUSTOMARY <input checked="" type="checkbox"/>		
RAW MATERIAL - COMMERCIAL STANDARD MICRO SWITCH STANDARDS APPLY					
DIMENSIONS ARE TO BE MET BEFORE PROTECTIVE COATINGS ARE APPLIED					
WEIGHT					

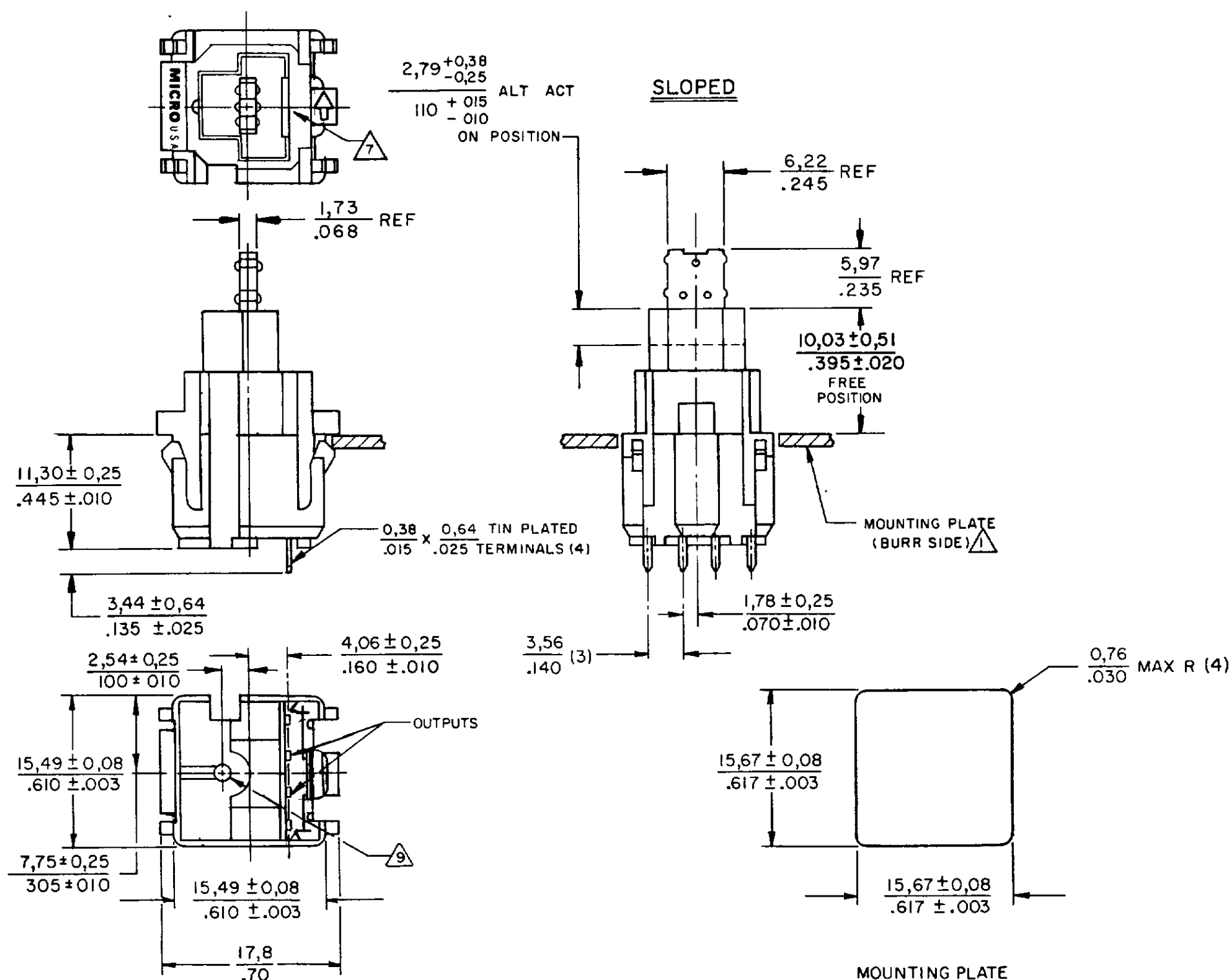
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MICRO SWITCH FREEPORT, ILLINOIS, U.S.A. A DIVISION OF HONEYWELL	SWITCH-SOLID STATE LED LOW PROFILE	CATALOG LISTING 1001 SD SERIES CHART 6

ELECTRICAL, MECHANICAL & TEMPERATURE
CHARACTERISTICS PER SECTION "D" OF
FOLLOWING CS

SINK LEVEL	CS 044 116
SOURCE LEVEL	CS 044 45
SINK PULSE	CS 044 118
LOGIC SPAN	CS 044 117
TIMED REPEAT	CS 044 48



TYPICAL PC BOARD DETAIL



MOUNTING PLATE
CUTOUT

CATALOG LISTING	ACTION	PLUNGER STYLE	NOMINAL OPERATING FORCE Δ	OUTPUT STYLE	IDENTIFICATION CODE Δ	REMARKS
1001SD1C1A	MOMENTARY	SLOPED	.361 N / 1.3 OZ	SINK LEVEL	1A S	
1001SD1C1B	MOMENTARY	SLOPED	.361 N / 1.3 OZ	SINK PULSE	1B S	
1001SD1C3A	MOMENTARY	SLOPED	.695 N / 2.5 OZ	SINK LEVEL	3A S	
1001SD1C3B	MOMENTARY	SLOPED	.695 N / 2.5 OZ	SINK PULSE	3B S	
1001SD1C6B	MOMENTARY	SLOPED	1.668 N / 6.0 OZ	SINK PULSE	6B S	
1001SD2C3A	ALTERNATE	SLOPED	.695 N / 2.5 OZ	SINK LEVEL	3A S	

NOTES

- 1 MOUNTING PLATE THICKNESS INCLUDING BURR IS $1.27^{+.20}_{-.08}$ / $.050^{+.008}_{-.003}$
- 2 - RECOMMENDED PANEL DIMENSION
- 3 - DO NOT EXPOSE SWITCH TO PRINTED CIRCUIT BOARD CLEANING SOLVENT
- 4 - WHEN HAND SOLDERING THE MODULE LEADS TO THE PRINTED CIRCUIT BOARD USE A 1/8 INCH DIAMETER THERMOSTATICALLY CONTROLLED TIP OF 500°F/260°C AND HOLD IT TO THE TERMINALS NO LONGER THAN 2 SECONDS
- 5 - LINEAR MEASURE $\frac{\text{mm}}{\text{IN}}$ OR mm/IN
- 6 - USE WITH THREE UNIT BUTTON
- 7 IDENTIFICATION CODE LOCATED IN THIS AREA.
- 8 - THESE MODULES ARE ONLY USED AS SUPPORT MODULES UNDER 2 AND 3 UNIT BUTTONS
- 9 HOLE FOR NO. 2 SCREW. SCREW NOT TO ENTER MODULE IN EXCESS OF 3,18/.125
- 10 - THIS "M" DRAWING APPLIES TO SAME LISTINGS WITH (-R) SUFFIX
- 11 FORCE AT .090 INCHES (2.29 mm) BASIC TRAVEL

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

SWITCH-SOLID STATE
LOW PROFILE

CATALOG LISTING
1001 SD SERIES
CHART 7

THIRD ANGLE PROJECTION			
SCALE 2 TO 1			
DO NOT SCALE PRINT			
TOLERANCES			
APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ±			
DESIGN UNITS	IN	MM	IN
NO PLACES	1	1	1
ONE PLACE	1	1	1
TWO PLACES	1	1	1
THREE PLACES	1	1	1
ANGLES	1	1	1
DESIGN UNITS	IN	MM	IN
RAW MATERIAL—COMMERCIAL STANDARD	IN	MM	IN
MICRO SWITCH STANDARDS APPLY	IN	MM	IN
DIMENSIONS ARE TO BE MET BEFORE PROTECTIVE COATINGS ARE APPLIED	IN	MM	IN
WEIGHT	IN	MM	IN

FO-52863-A		DRAWN		M		1001SD SERIES CHART 8		RELEASE NO. CO 37635 PR 57356 REPLACES	
				ISSUE		DRAWING NUMBER			
				X X		X X			
				X X		8			
REVISIONS									
A		CO 38181		C E B		7 FEB 77		CHECK	
B		PR-6960		W L W		9 FEB 78		CHECK	
C		CO 39226		S J S		14 MAR 78		CHECK	
D		W L W		A 5218		10 JAN 79		CHECK	
E		CO		47808		17 JUNE 80		CHECK	
F		CO 51843		T S K		14 SEPT 82		CHECK	
G		CO 53594		K E W		24 AUG 83		CHECK	
H								CHECK	
I								CHECK	
J								CHECK	
K								CHECK	
L								CHECK	
M								CHECK	
N								CHECK	
O								CHECK	
P								CHECK	
Q								CHECK	
R								CHECK	
S								CHECK	
T								CHECK	
U								CHECK	
V								CHECK	
W								CHECK	
X								CHECK	
Y								CHECK	
Z								CHECK	
AA								CHECK	
AB								CHECK	
AC								CHECK	
AD								CHECK	
AE								CHECK	
AF								CHECK	
AG								CHECK	
AH								CHECK	
AI								CHECK	
AJ								CHECK	
AK								CHECK	
AL								CHECK	
AM								CHECK	
AN								CHECK	
AO								CHECK	
AP								CHECK	
AQ								CHECK	
AR								CHECK	
AS								CHECK	
AT								CHECK	
AU								CHECK	
AV								CHECK	
AW								CHECK	
AX								CHECK	
AY								CHECK	
AZ								CHECK	
BA								CHECK	
BB								CHECK	
BC								CHECK	
BD								CHECK	
BE								CHECK	
BF								CHECK	
BG								CHECK	
BH								CHECK	
BI								CHECK	
BJ								CHECK	
BK								CHECK	
BL								CHECK	
BM								CHECK	
BN								CHECK	
BO								CHECK	
BP								CHECK	
BQ								CHECK	
BR								CHECK	
BS								CHECK	
BT								CHECK	
BU									

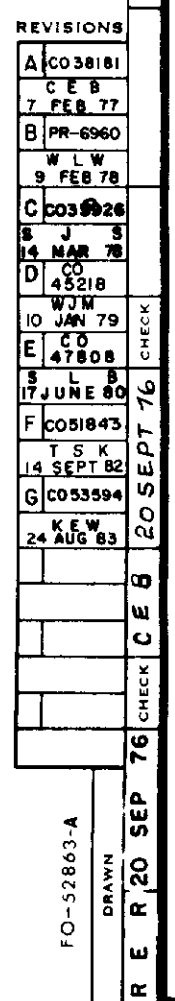
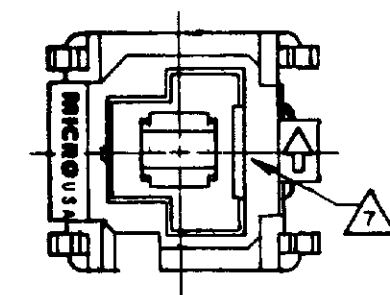





Diagram illustrating a typical PC board detail, showing dimensions and tolerances for a multi-layer printed circuit board. The central vertical axis is labeled "C OF MODULE".

Dimensions and Tolerances (in inches):

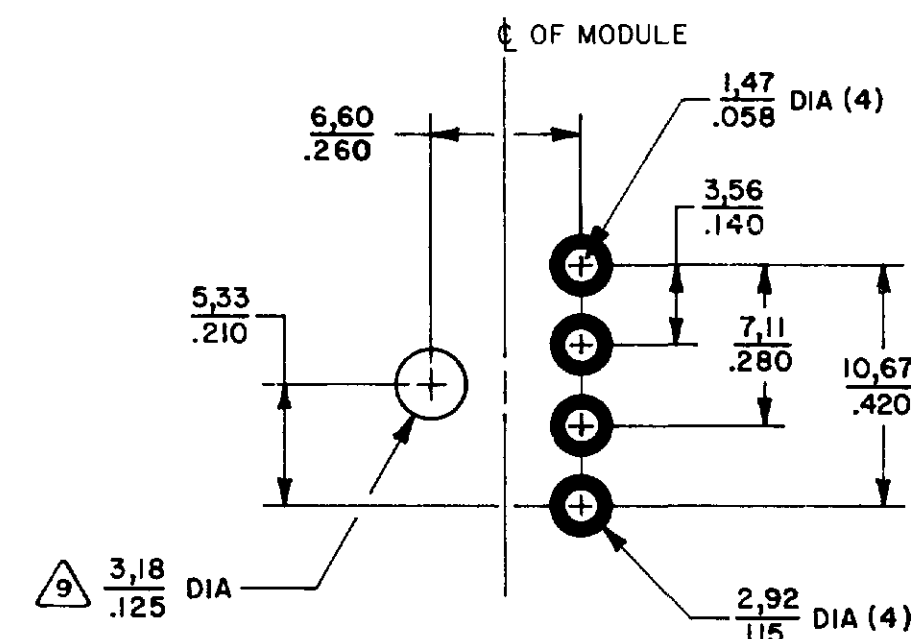
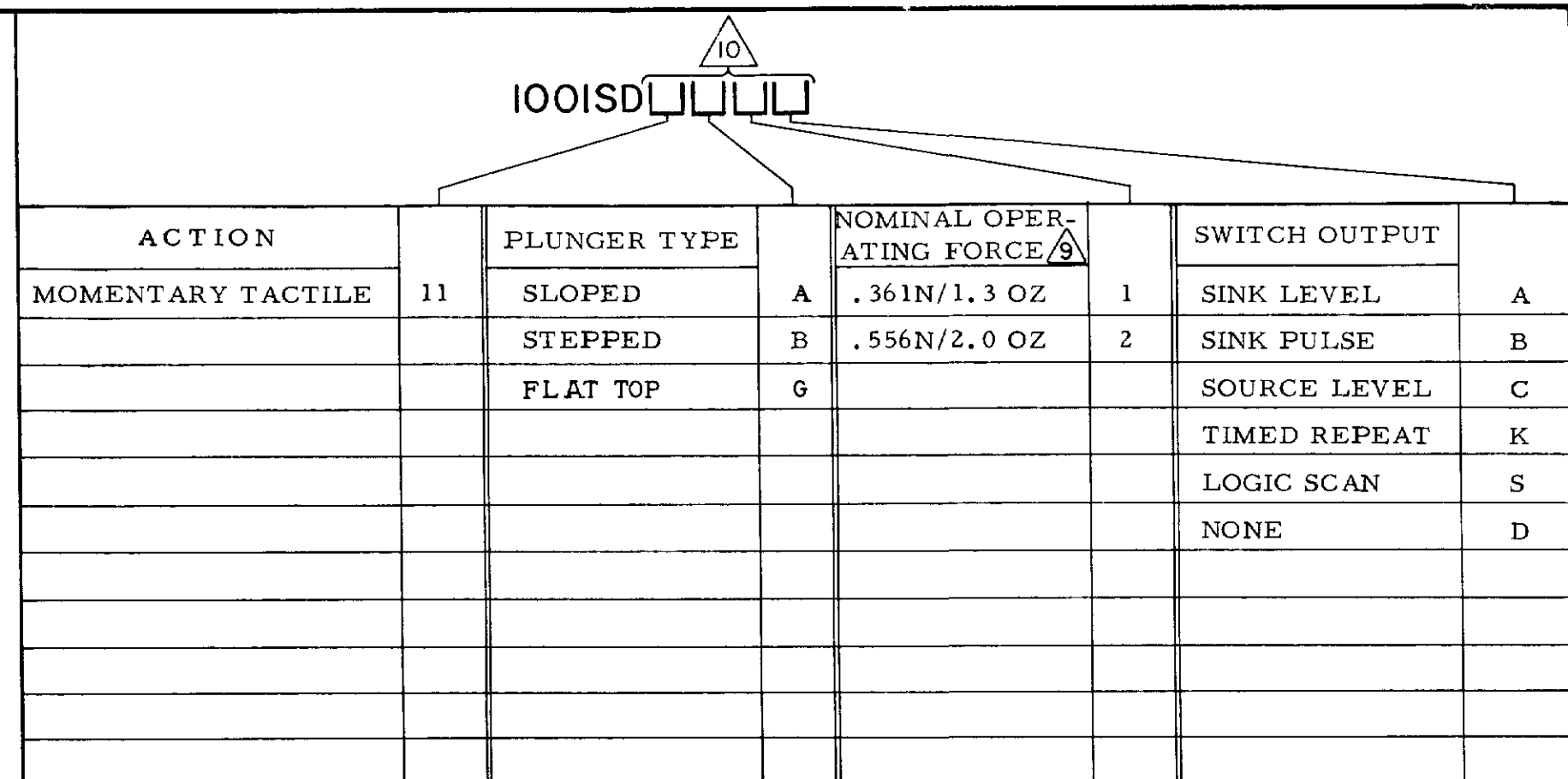
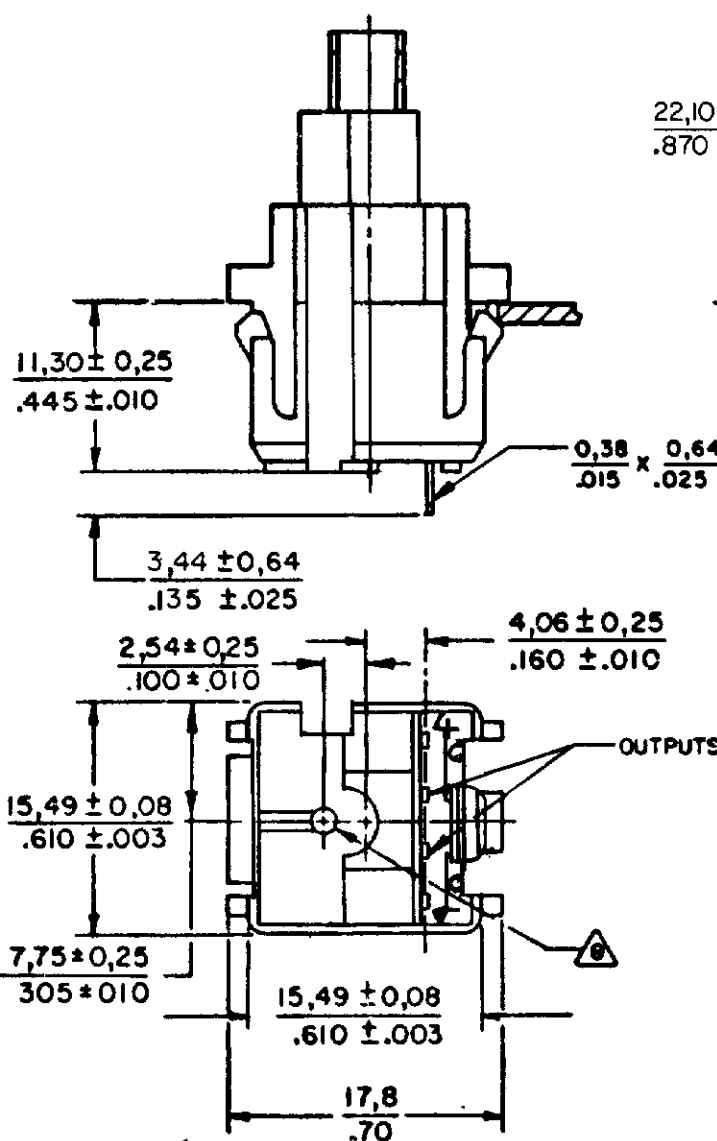
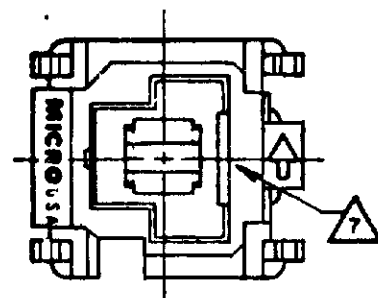
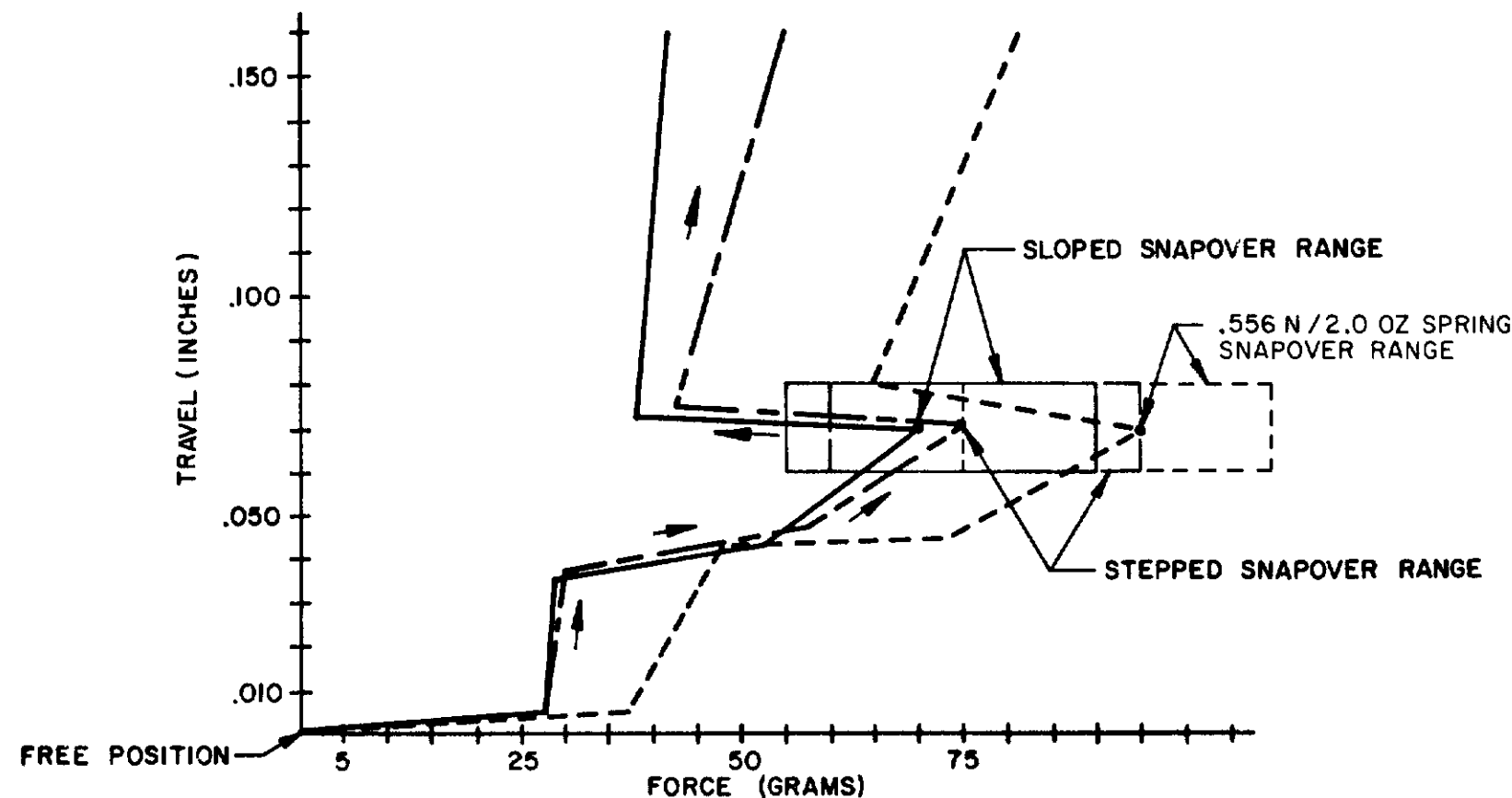
- Top Layer Thickness: $1.47 \pm .058$ DIA (4)
- Prepreg Thickness: $5.33 \pm .210$
- Core Thickness: $3.18 \pm .125$ DIA
- Total Thickness: $6.60 \pm .260$
- Prepreg Thickness: $3.56 \pm .140$
- Core Thickness: $7.11 \pm .280$
- Bottom Layer Thickness: $2.92 \pm .115$ DIA (4)
- Total Thickness: $10.67 \pm .420$

The diagram shows a cross-section of the board with a central hole and four outer holes. The dimensions are given in inches, and the tolerances are indicated in parentheses.

- | THIRD ANGLE PROJECTION | | | | | |
|--|-----|---|---|------|--------|
|  | |  | | | |
| SCALE | 2 1 | | | | |
| DO NOT SCALE PRINT | | | | | |
| TOLERANCES | | | | | |
| APPLY TO DESIGN UNITS CONVERSIONS ARE ONLY FOR REFERENCE UNLESS NOTED *TOLERANCES ARE .3 | | | | | |
| | DIM | UNIT | DIM | UNIT | TOL. |
| | IN | IN | IN | IN | THOUS |
| NO PLACES | X | 1/64 | X | X | 0.0103 |
| ONE PLACE | X | X | X | X | 0.0008 |
| TWO PLACES | X | X | X | X | 0.0004 |
| THREE PLACES | X | X | X | X | 0.0002 |
| ANGLES | | 0.157 000 | X | X | 0.0001 |
| BY METRIC | | | US CUSTOMARY | | |
| DESIGN UNITS | | |  | | |
| RAW MATERIAL - COMMERCIALLY AVAILABLE | | | | | |
| MILITARY SWITCH STANDARDS APPLY | | | | | |
| DIMENSIONS ARE TO BE MET BEFORE PROTECTIVE COATINGS ARE APPLIED | | | | | |
| WEIGHT | | | | | |

E	CATALOG LISTING
	100ISD SERIES
	CHART 8

FO-52863-A		DRAWN		1001SD SERIES M CHART 9		DRAWING NUMBER		ISSUE X 9		REPLACES	
JAL		7 OCT 76		CHECK		C E B		8 OCT 76		RELEASE NO PR-5736	
A		C038181		1		C		J		8	
B		4 FEB 77		2		C		J		8	
R		PR-6960		3		C		J		8	
W L F W		9 FEB 78		4		C		J		8	
C		C039926		5		C		J		8	
S		J		6		C		J		8	
D		45218		7		C		J		8	
W J M		10 JAN 79		8		C		J		8	
E		47908		9		C		J		8	
S L B		17 JUNE 80		10		C		J		8	
J A P		5 OCT 81		11		C		J		8	
G		C051843		12		C		J		8	
T S K		14 SEPT 82		13		C		J		8	
H		C053594		14		C		J		8	
K E W		24 AUG 83		15		C		J		8	



NOTES

① MOUNTING PLATE THICKNESS INCLUDING BURR IS $1.27^{+0.20}_{-0.08}/.050^{+.008}_{-.003}$

② RECOMMENDED PANEL DIMENSION

3 - DO NOT EXPOSE SWITCH TO PRINTED CIRCUIT BOARD CLEANING SOLVENT

4 - WHEN HAND SOLDERING THE MODULE LEADS TO THE PRINTED CIRCUIT BOARD USE A 1/8 INCH DIAMETER THERMOSTATICALLY CONTROLLED TIP OF 500°F/260°C AND HOLD IT TO THE TERMINALS NO LONGER THAN 2 SECONDS

5 - LINEAR MEASURE $\frac{\text{mm}}{\text{IN}}$ OR mm/IN

⑥ THESE FORCES AND TRAVEL CHARACTERISTICS ARE BASED ON A DYNAMIC TEST PUSHING PERPENDICULAR TO AND APPROXIMATELY IN THE CENTER OF THE BOTTOM SURFACE WITH AN ACTUATING SPEED OF 1" MIN

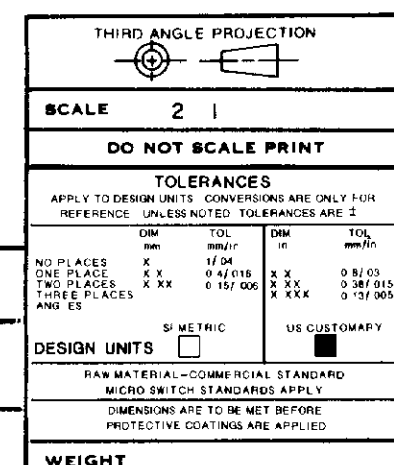
⑦ IDENTIFICATION CODE LOCATED IN THIS AREA.

⑧ HOLE FOR NO. 2 SCREW. SCREW NOT TO ENTER MODULE IN EXCESS OF 3,18/.125



⑨ FORCE AT .090 INCHES (2.29 mm) BASIC TRAVEL

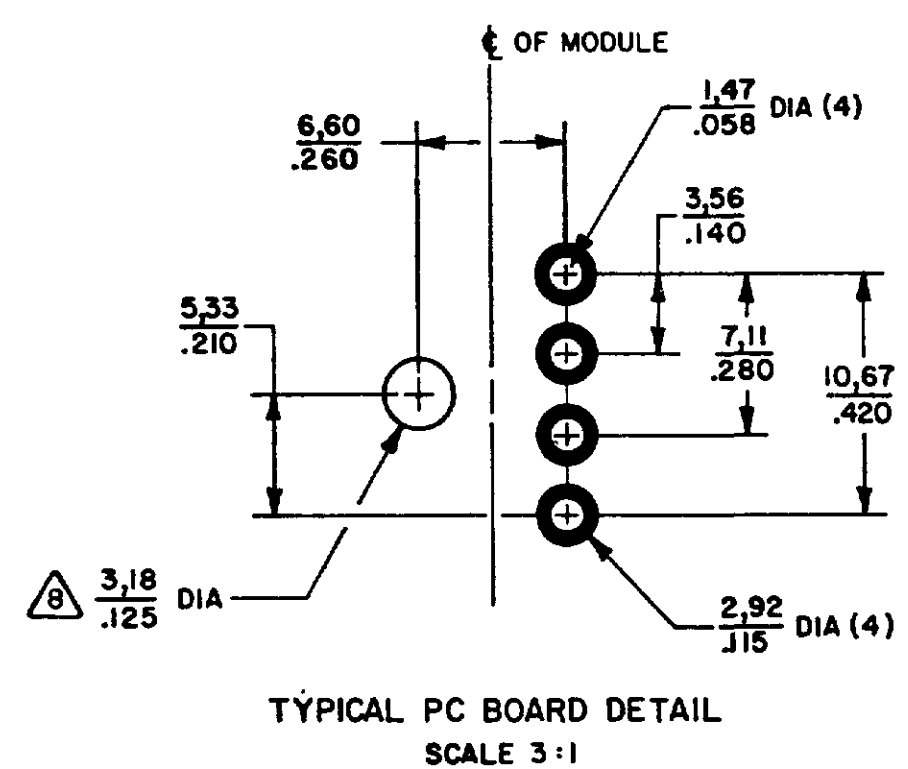
⑩ IDENTIFICATION CODE

11 THIS "M" DRAWING APPLIES TO SAME LISTINGS WITH (-A) SUFFIX



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MICRO SWITCH FREEPORT ILLINOIS U.S.A. A DIVISION OF HONEYWELL TEL. 815/336-1000	SWITCH - SOLID STATE LOW PROFILE	CATALOG LISTING 100ISD SER CHART 9

100ISD 							
ACTION	13	PLUNGER TYPE	A	NOMINAL OPERATING FORCE 	1	SWITCH OUTPUT	A
MOMENTARY TACTILE		SLOPED		.361N/1.3 OZ		SINK LEVEL	
		STEPPED	B	.556N/2.0 OZ	2	SINK PULSE	B
						SOURCE LEVEL	C
						TIMED REPEAT	K
						LOGIC SCAN	S
						NONE	D



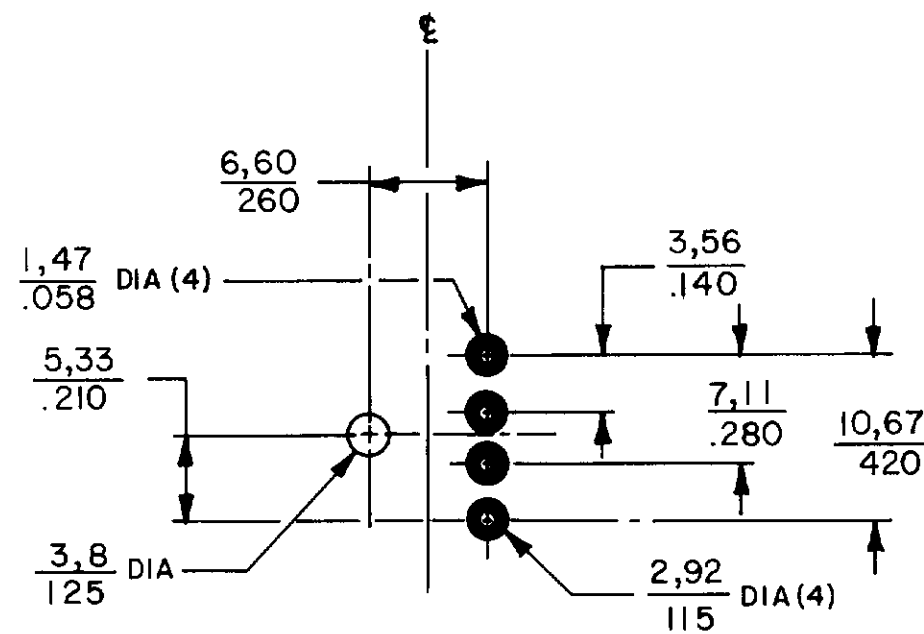
- NOTES
- ① MOUNTING PLATE THICKNESS INCLUDING BURR IS 1,27^{+0,20}_{-0,08}/.050^{+0,008}_{-0,003}
- ② RECOMMENDED PANEL DIMENSION
- 3 - DO NOT EXPOSE SWITCH TO PRINTED CIRCUIT BOARD CLEANING SOLVENT
- 4 - WHEN HAND SOLDERING THE MODULE LEADS TO THE PRINTED CIRCUIT BOARD USE A 1/8 INCH DIAMETER THERMOSTATICALLY CONTROLLED TIP OF 500°F/260°C AND HOLD IT TO THE TERMINALS NO LONGER THAN 2 SECONDS
- ⑤ THESE FORCES AND TRAVEL CHARACTERISTICS ARE BASED ON A DYNAMIC TEST PUSHING PERPENDICULAR TO AND APPROXIMATELY IN THE CENTER OF THE BUTTON SURFACE WITH AN ACTUATING SPEED OF 1" MIN
- ⑥ IDENTIFICATION CODE LOCATED IN THIS AREA
- ⑦ HOLE FOR NO. 2 SCREW. SCREW NOT TO ENTER MODULE IN EXCESS OF 3,18/.125
- ⑧ FORCE AT .090 INCHES (2.29 mm) BASIC TRAVEL
- ⑨ IDENTIFICATION CODE
- 10 - THIS "M" DRAWING APPLIES TO SAME LISTINGS WITH
(-A) OR (-R) SUFFIX
- THIRD

[illegible]

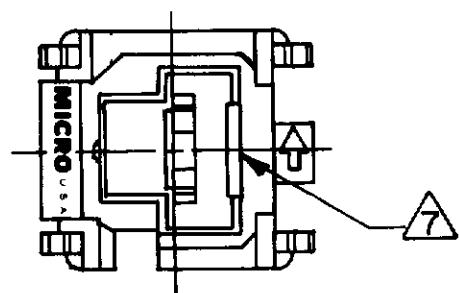
THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF MICRO SWITCH A DIVISION OF HONEYWELL THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH		NO PLACES ONE PLACE X 12.04 X 13 THREE PLACES X 0.42/16 X 0.157/006 X 0.380/015 X 0.137/005	
MICRO SWITCH FREEPORT ILLINOIS U.S.A. A DIVISION OF HONEYWELL FED. MFG. CODE 91929	SWITCH-SOLID STATE LOW PROFILE	CATALOG LISTING 100ISD SERIES	
		DESIGN UNITS <input type="checkbox"/> S. METRIC <input checked="" type="checkbox"/> U.S. CUSTOMARY <input checked="" type="checkbox"/>	
		HAW MAILED-COMMERCIAL STANDARD MICRO SWITCH STANDARDS APPLY DIMENSIONS ARE TO BE MET BEFORE PROTECT VEE COATINGS ARE APPLIED	
		WEIGHT	

ELECTRICAL, MECHANICAL & TEMPERATURE
CHARACTERISTICS PER SECTION "D" OF
FOLLOWING CS

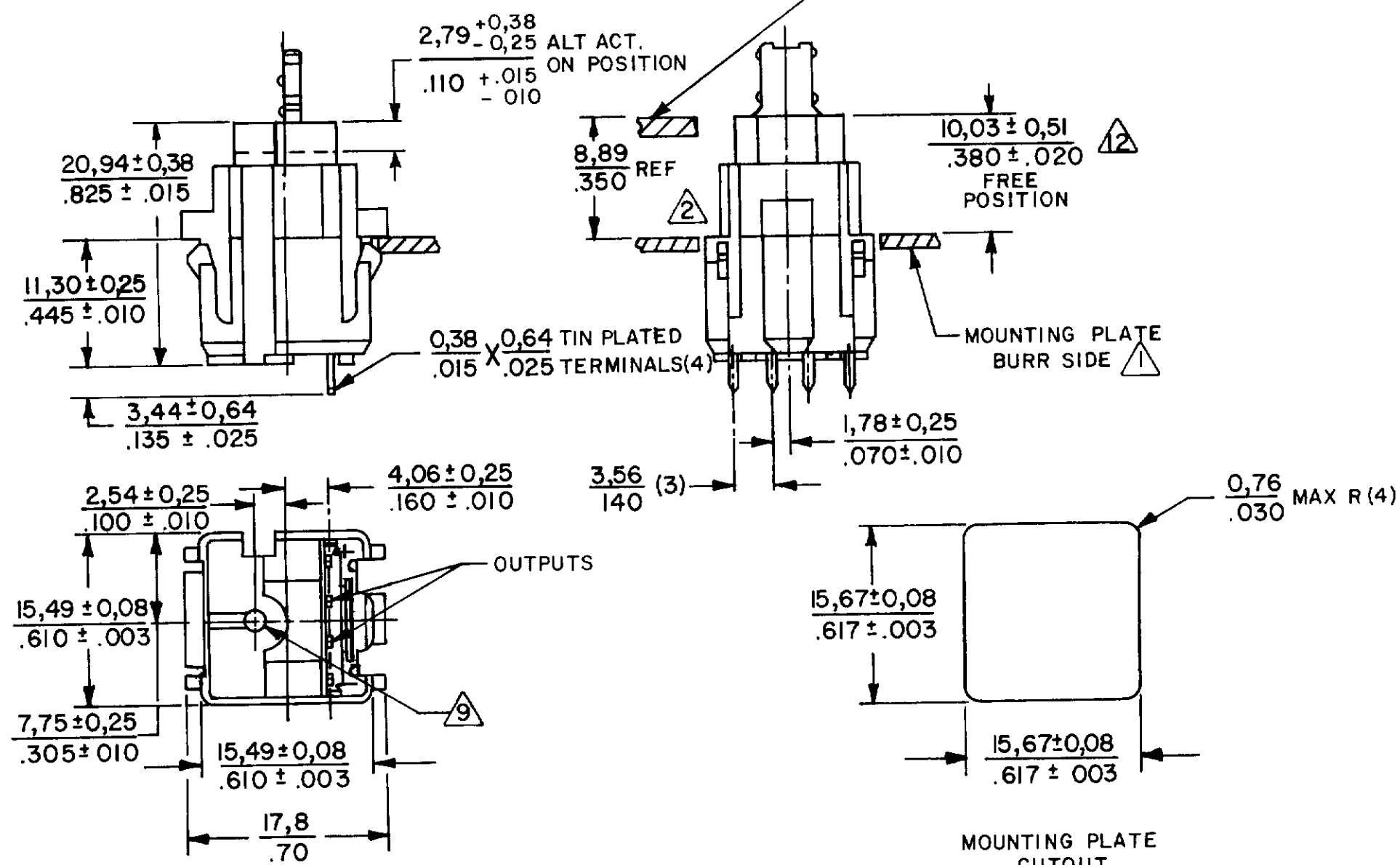
SINK LEVEL	CS 044 116
SOURCE LEVEL	CS 044 045
SINK PULSE	CS 044 118
LOGIC SCAN	CS 044 117
TIMED REPEAT	CS 044 048



TYPICAL PC BOARD DETAIL



SLOPED



MOUNTING PLATE
CUTOUT

1001SD

ACTION		PLUNGER TYPE		NOMINAL OPER- ATING FORCE Δ		SWITCH OUTPUT	
MOMENTARY	1	SPECIAL BLADE	K	.361N/1.3 OZ	1	SINK LEVEL	A
ALTERNATE ACTION	2			.556N/2.0 OZ	2	SINK PULSE	B
				.695N/2.5 OZ	3	SOURCE LEVEL	C
				1.668N/6.0 OZ	6	TIMED REPEAT	K
				2.224N/8.0 OZ	8	LOGIC SCAN	S
				NO SPRING Δ	4	NONE	D

NOTES

- MOUNTING PLATE THICKNESS INCLUDING BURR IS
 $1.27^{+.20}_{-.08}/.050^{+.008}_{-.003}$
- RECOMMENDED PANEL DIMENSION
- DO NOT EXPOSE SWITCH TO PRINTED CIRCUIT BOARD
CLEANING SOLVENT
- WHEN HAND SOLDERING THE MODULE LEADS TO THE
PRINTED CIRCUIT BOARD USE A 1/8 INCH DIAMETER
THERMOSTATICALLY CONTROLLED TIP OF 500°F/260°C
AND HOLD IT TO THE TERMINALS NO LONGER THAN
2 SECONDS
- LINEAR MEASURE $\frac{mm}{IN.}$ OR mm/IN.
- USE WITH THREE UNIT BUTTON
- IDENTIFICATION CODE LOCATED IN THIS AREA
- IDENTIFICATION CODE
- HOLE FOR NO. 2 SCREW. SCREW NOT TO ENTER
MODULE IN EXCESS OF 3.18/.125
- THIS "M" DRAWING APPLIES TO SAME LISTINGS WITH (-A) OR
(-R) SUFFIX
- FORCE AT .090 INCHES (2.29mm) BASIC TRAVEL
9.14±0.51/.360±.020 ON FLAT TOP MODULE

THIRD ANGLE PROJECTION
SCALE 2:1
DO NOT SCALE PRINT
TOLERANCES
APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED TOLERANCES ARE:
N. PLACES ONE PLACE TWO PLACES THREE PLACES ANALYSIS
IN. MM X X X X X X
TOL. FRACTION DECIMAL X X X X X
IN. MM FRACTION DECIMAL X X X X X
DESIGN UNITS
RAW MATERIALS - COMMERCIAL STANDARD MICRO SWITCH STANDARDS APPLY DIMENSIONS ARE TO BE MET BEFORE PROTECTIVE COATINGS ARE APPLIED
WEIGHT

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FREEPORT ILLINOIS U.S.A.
A DIVISION OF HONEYWELL
FED. MFG. CODE 91929

SWITCH-SOLID STATE
LOW PROFILE

CATALOG LISTING
1001SD SERIES
CHART 11

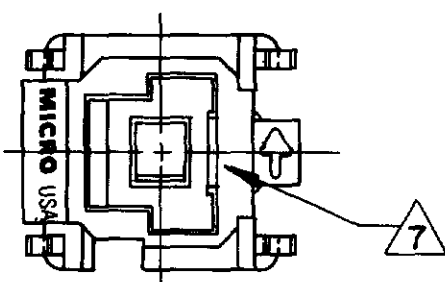
1001SD SERIES
CHART 11
DRAWING NUMBER
X 2
4
REVISIONS
A 47808
16 JUNE 80
B C051093
T SK
14 SEPT 82
C C053594
K E W
24 AUG 83
FO-52863-A
DRAWN
S J S 29 MAY 78
CHECK
C E B 31 MAY 78
CHECK

ELECTRICAL, MECHANICAL & TEMPERATURE
CHARACTERISTICS PER SECTION "D" OF
FOLLOWING CS

SINK LEVEL	CS 044 116
SOURCE LEVEL	CS 044 045
SINK PULSE	CS 044 118
LOGIC SCAN	CS 044 117
TIMED REPEAT	CS 044 048

100ISD

ACTION		PLUNGER TYPE		NOMINAL OPER- ATING FORCE ⁵		SWITCH OUTPUT	
MOMENTARY	16	STEPPED	B	.361N/1.3 OZ	1	SINK LEVEL	A
TACTILE	18			.556N/2.0 OZ	2	SINK PULSE	B
				.695N/2.5 OZ	3	SOURCE LEVEL	C
				1.668N/6.0 OZ	6	TIMED REPEAT	K
				2.224N/8.0 OZ	8	LOGIC SCAN	S
				NO SPRING ⁶	4	NONE	D
				.973N/3.5 OZ	5		

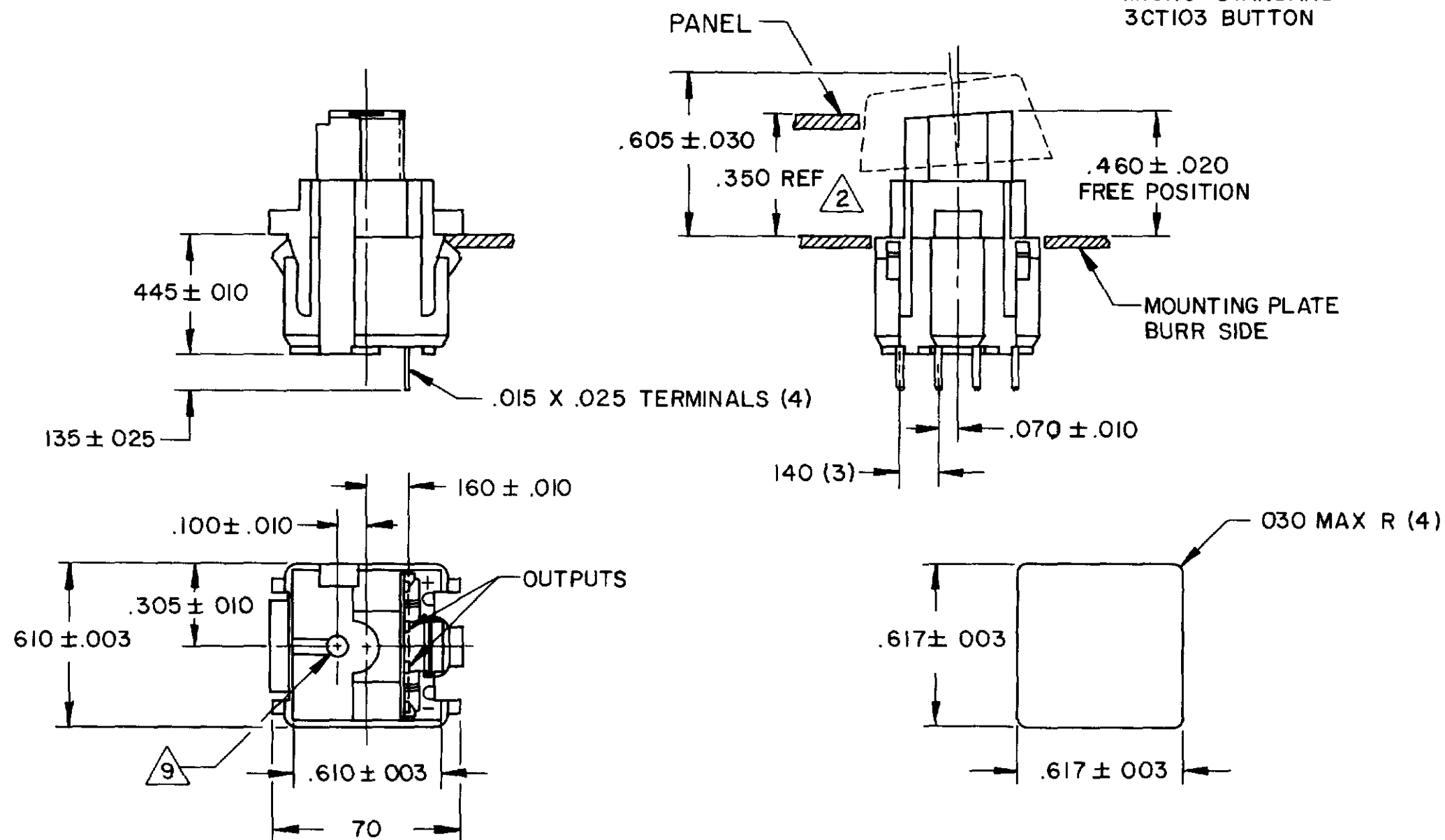


NOTES

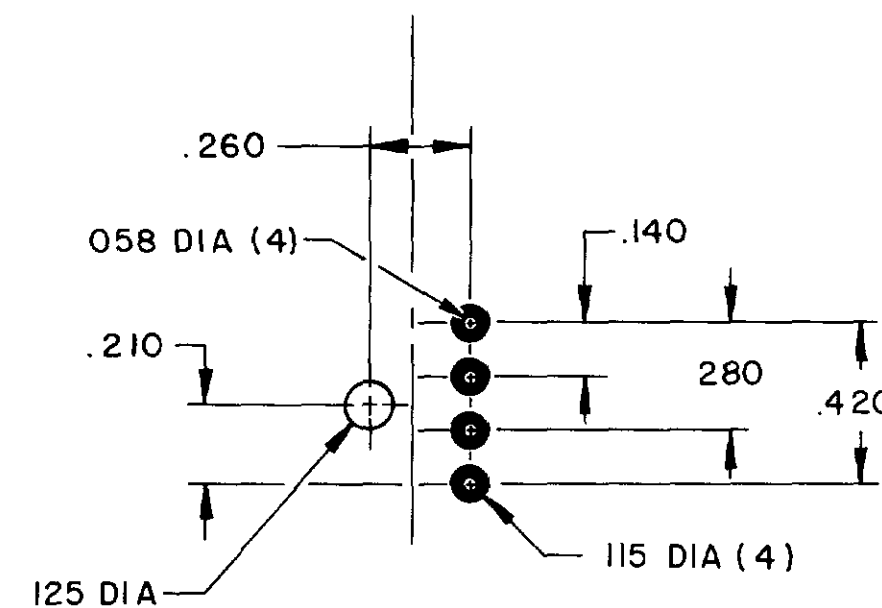
- ¹ MOUNTING PLATE THICKNESS INCLUDING BURR IS .050⁺.008
² RECOMMENDED PANEL DIMENSION
3 - DO NOT EXPOSE SWITCH TO PRINTED CIRCUIT BOARD CLEANING SOLVENT
4 - WHEN HAND SOLDERING THE MODULE LEADS TO THE PRINTED CIRCUIT BOARD USE A 1/8 INCH DIAMETER THERMOSTATICALLY CONTROLLED TIP OF 500°F AND HOLD IT TO THE TERMINALS NO LONGER THAN 2 SECONDS
⁵ FORCE AT .090 INCHES BASIC TRAVEL
⁶ USE WITH THREE UNIT BUTTON
⁷ IDENTIFICATION CODE LOCATED IN THIS AREA
⁸ IDENTIFICATION CODE
⁹ HOLE FOR NO. 2 SCREW. SCREW NOT TO ENTER MOUDLE IN EXCESS OF .125
10 THIS "M" DRAWING APPLIES TO SAME LISTINGS WITH (-A) OR (-R) SUFFIX

STEPPED

MICRO STANDARD
3CT103 BUTTON



MOUNTING PLATE CUTOUT



TYPICAL PC BOARD DETAIL

THIRD ANGLE PROJECTION

SCALE 2 1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED
TOLERANCES ARE

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

ANGLES ±
RAW MATERIAL - COMMERCIAL STANDARD

DIMENSIONS ARE IN INCHES AND ARE
TO BE MET BEFORE PROTECTIVE
COATINGS ARE APPLIED

MICRO SWITCH STANDARDS APPLY

WEIGHT

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MICRO SWITCH
a Honeywell Division

SWITCH-SOLID STATE
LOW PROFILE

CATALOG LISTING
100ISD SERIES
CHART 13

FORMTEK
MASTER REDUCED

100ISD SERIES
CHART 13

M

DRAWING
NUMBER

3

ISSUE

REVISIONS

A REV
Dwg 100524
CHG 5-4-83
B PR
22861
JJA
29JUL-97

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

CHECK

FO-52863-B

DRAWN

J A P14

DEC 85

4 DEC 85

K A G