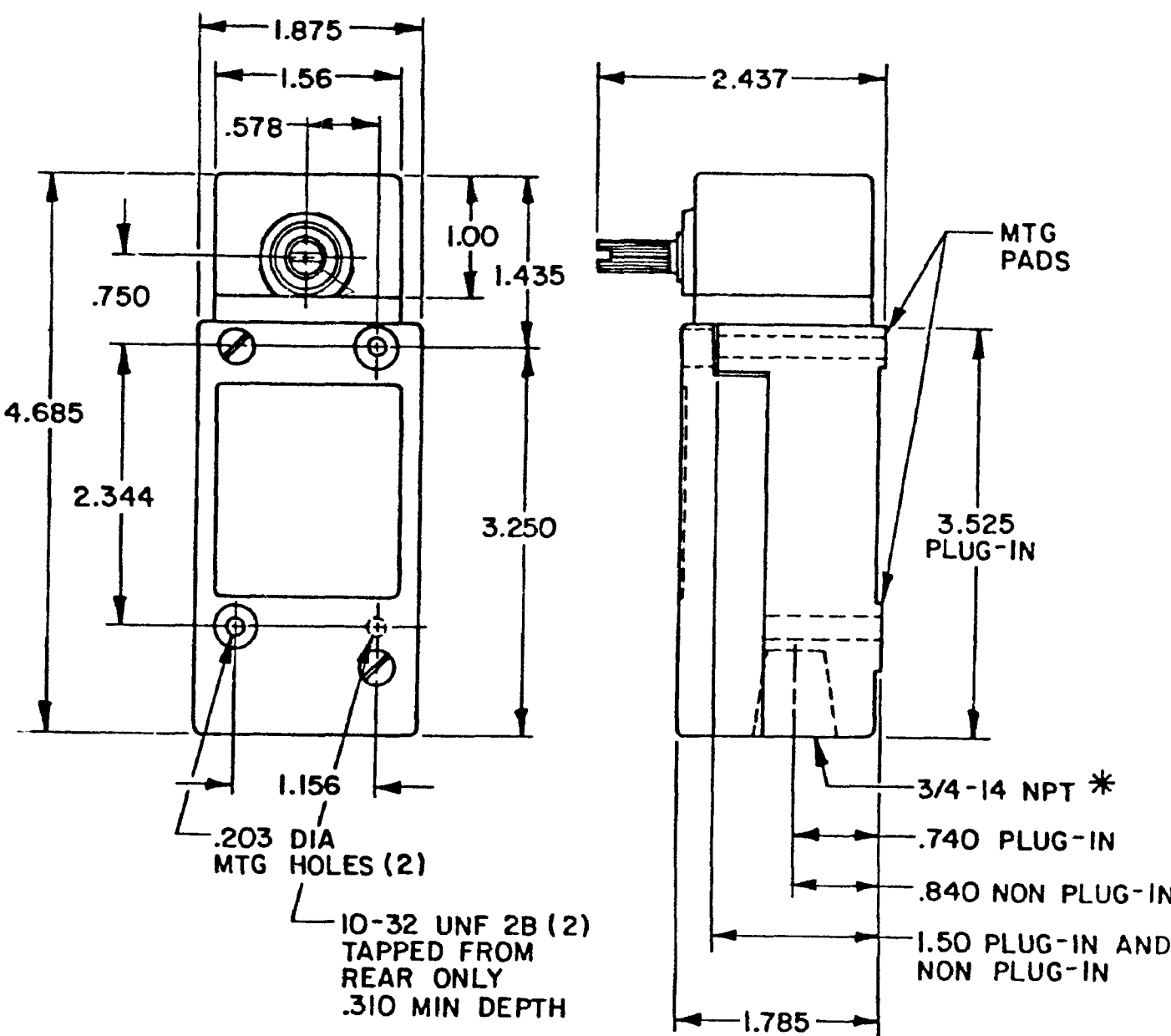


[illegible]

## DOUBLE POLE



TYPE: LSA2, LSH2, LSM2, LSN2, LSP2, LSR2  
LSA4, LSH4, LSM4, LSN4, LSP4, LSR4

SINGLE POLE PLUG-IN ONLY  
WITH INDICATOR LAMP

1.900

.180 X .400 LENS  
(FLUSH WITH HOUSING)

This diagram shows a side view of a single pole plug-in unit. It features a rectangular housing with a central window. A dimension line on the left indicates a height of 1.900. At the bottom of the housing, there is a small rectangular lens. A callout line points to this lens with the text ".180 X .400 LENS (FLUSH WITH HOUSING)". The top of the unit has a plug-in connector with two terminals, one of which is labeled with a circled 'E'. The bottom of the unit has two mounting holes, one of which is labeled with a circled 'E'.

OPERATING DATA-SIDE ROTARY

INITIAL POSITION

PRETRAVEL

P.T.

D.T.

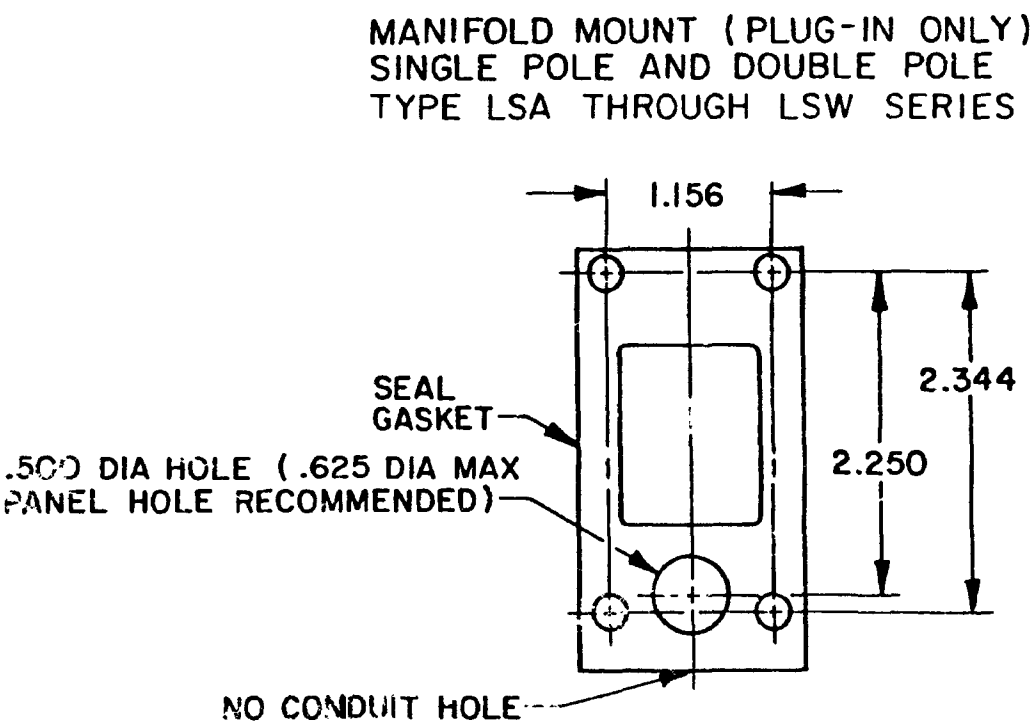
R.T.

O.T.

OVERTRAVEL

DIFFERENTIAL TRAVEL

RELEASE TRAVEL



|                                                                                                                                                                                     |                          |                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------|
| 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. |                          |                                         |
| <b>MICRO SWITCH</b><br>a Honeywell Division<br>FED. MFG. CODE 91929                                                                                                                 | <b>SWITCH - ENCLOSED</b> | CATALOG LISTING                         |
|                                                                                                                                                                                     |                          | <b>LSA-LSW SERIES</b><br><b>CHART 1</b> |

THIRD ANGLE PROJECTION

SCALE NONE

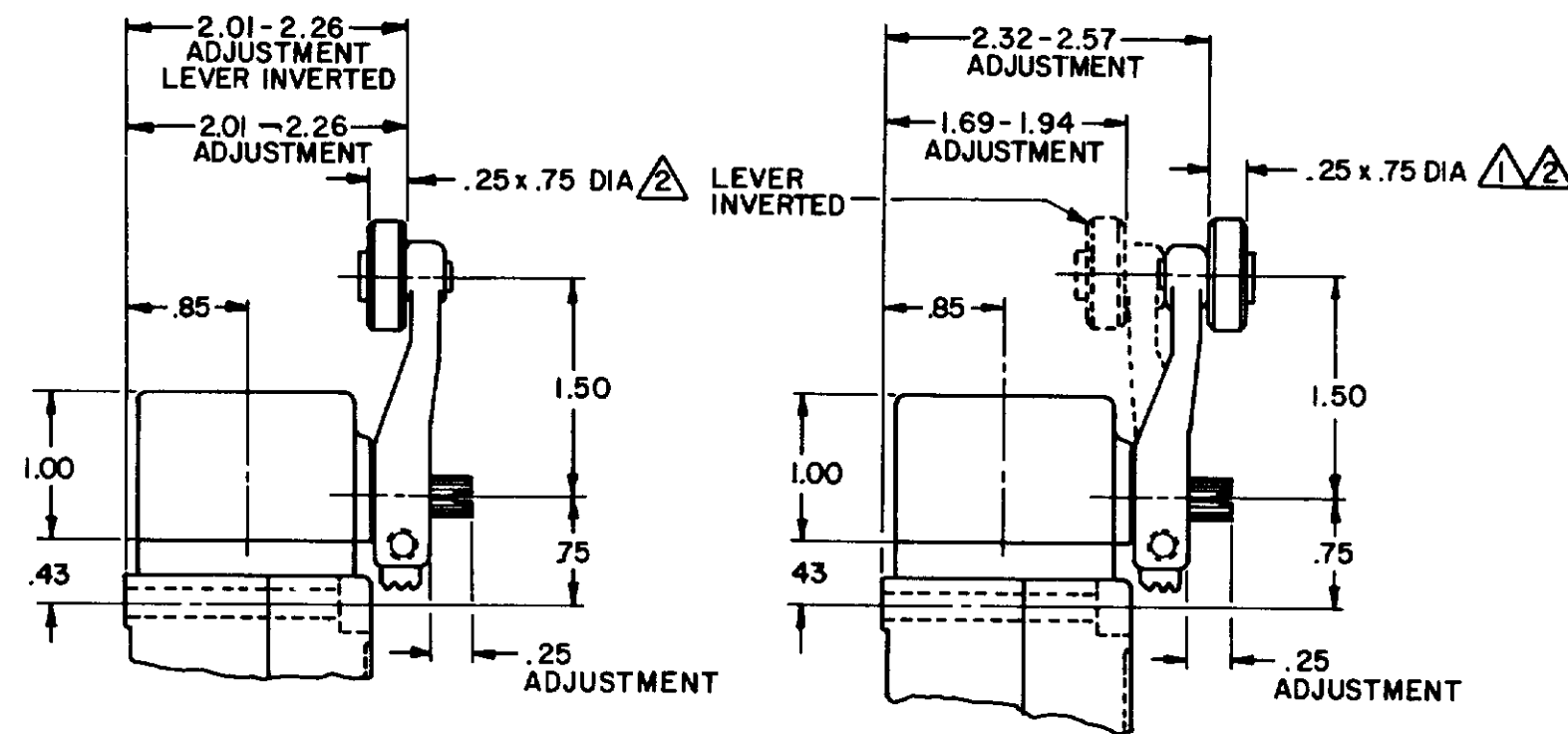
DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED  
TOLERANCES ARE

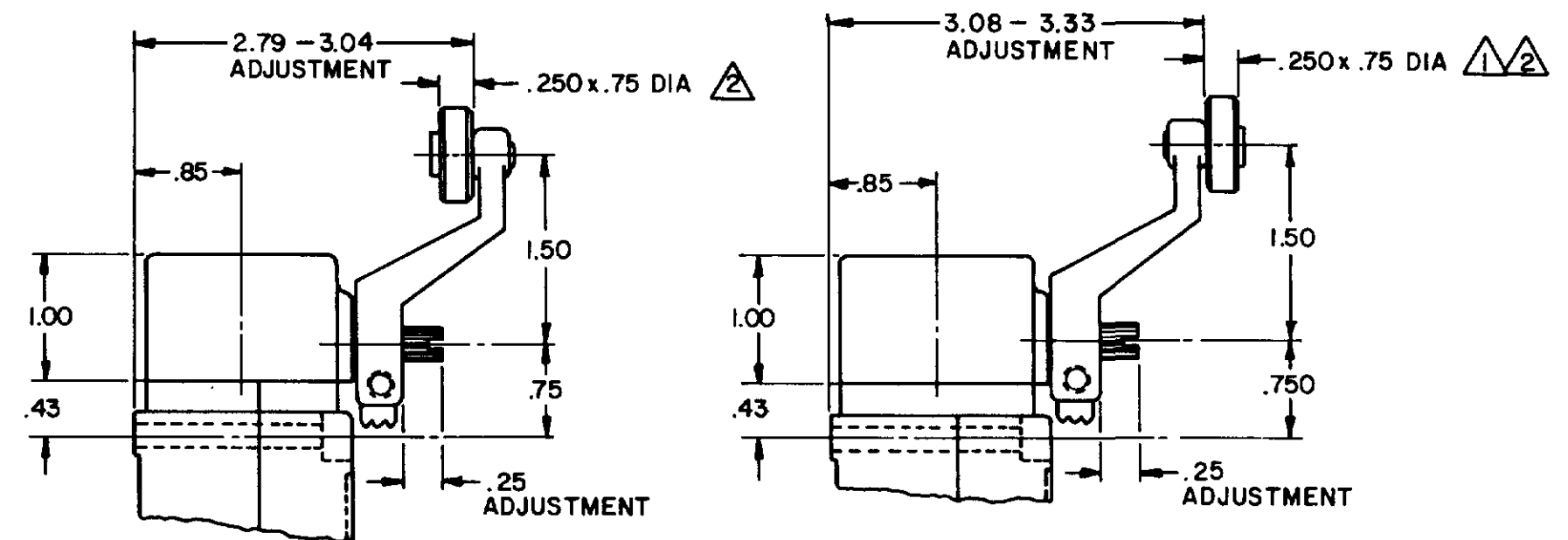
|              |        |            |
|--------------|--------|------------|
| ONE PLACE    | (.0)   | $\pm .030$ |
| TWO PLACES   | (.00)  | $\pm .015$ |
| THREE PLACES | (.000) | $\pm .005$ |
| ANGLES       |        | $\pm$      |

WEIGHT

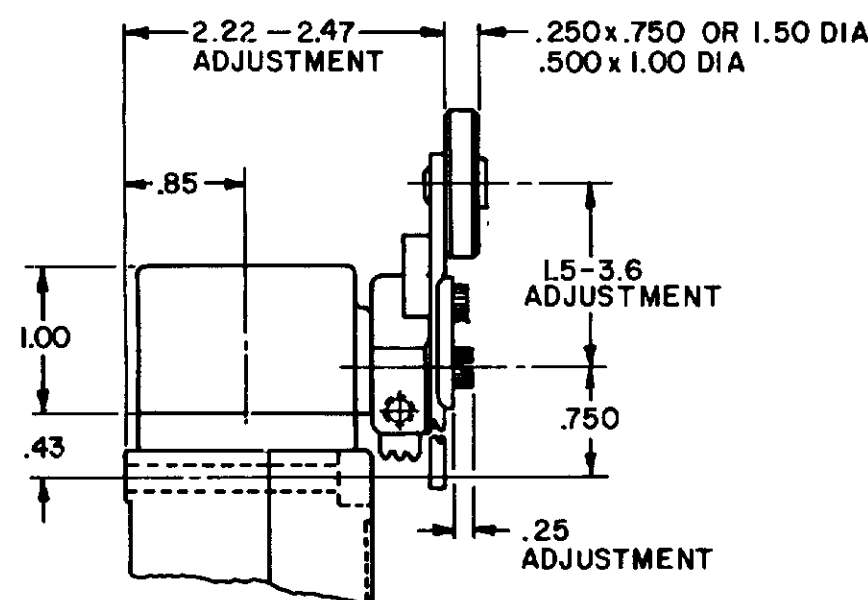
# SIDE ROTARY CAM TRACKING



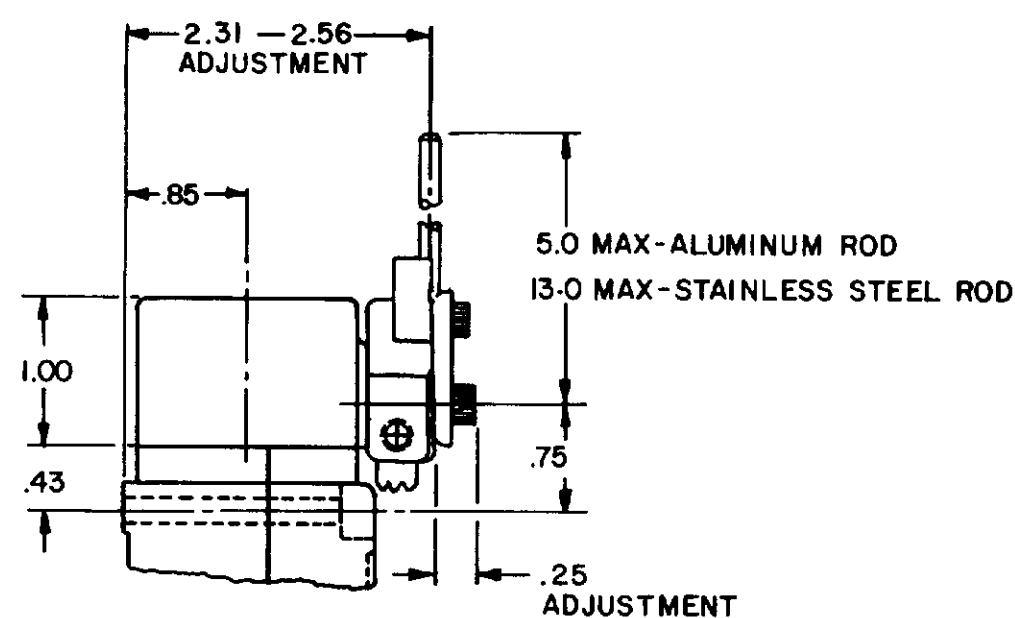
LSZ51 TYPE LEVERS



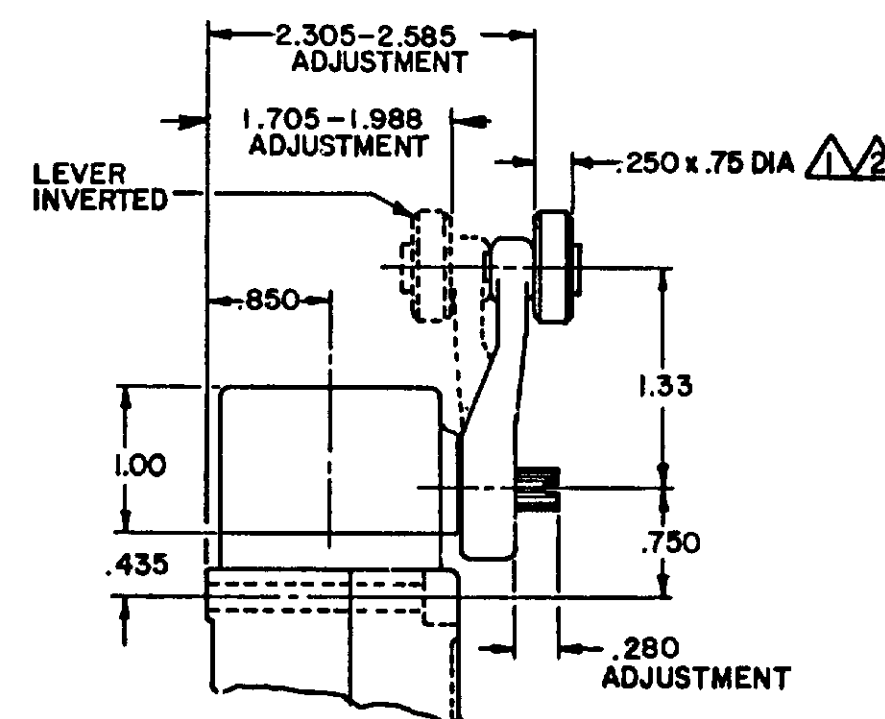
LSZ55 TYPE LEVERS



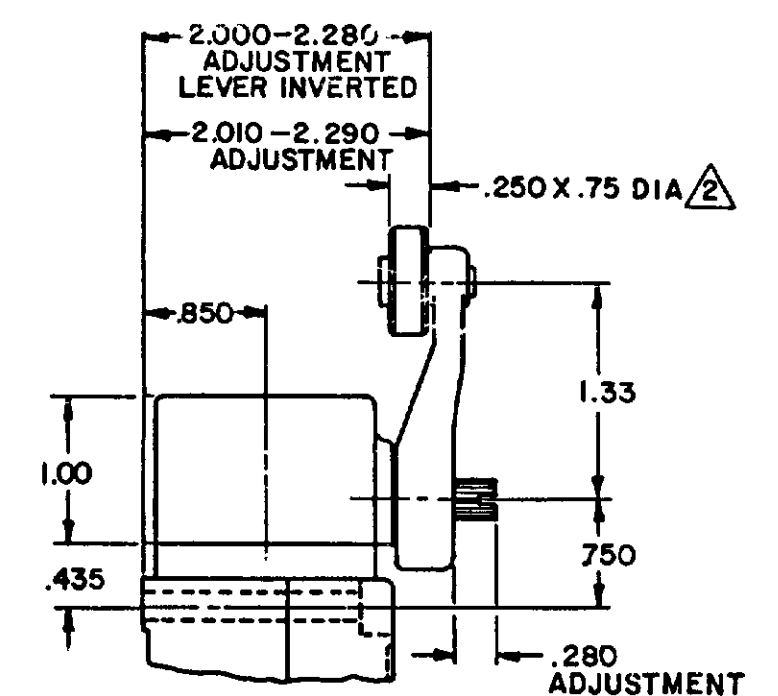
LSZ52 TYPE LEVER



LSZ54 TYPE LEVER



OPEN MOUNTED ROLLER



CLOSED MOUNTED ROLLER

LSZ59 TYPE LEVERS

## NOTES

- 1 ALSO AVAILABLE IN Ø.250 X 1.500 NYLON, BUT LEVER CANNOT BE INVERTED
- 2 FOR ADDITIONAL ROLLER WIDTHS AND/OR DIAMETERS REFER TO "M" DRAWING
- 3 - FOR ADDITIONAL TYPES OF ROLLERS AND LEVERS REFER TO LSZ CHART 1 "M" DRAWING

CATALOG LISTING  
LSA-LSW SERIES CHART 1  
PAGE 2 OF 10  
REPLACES LSA-LSW SERIES  
10JUL07 RELEASE NO. CO-78498  
PSR  
CHECK  
11AUG04  
AK  
11JUL94  
JAF  
15JUN94  
MAM  
DRAWN  
MASTER

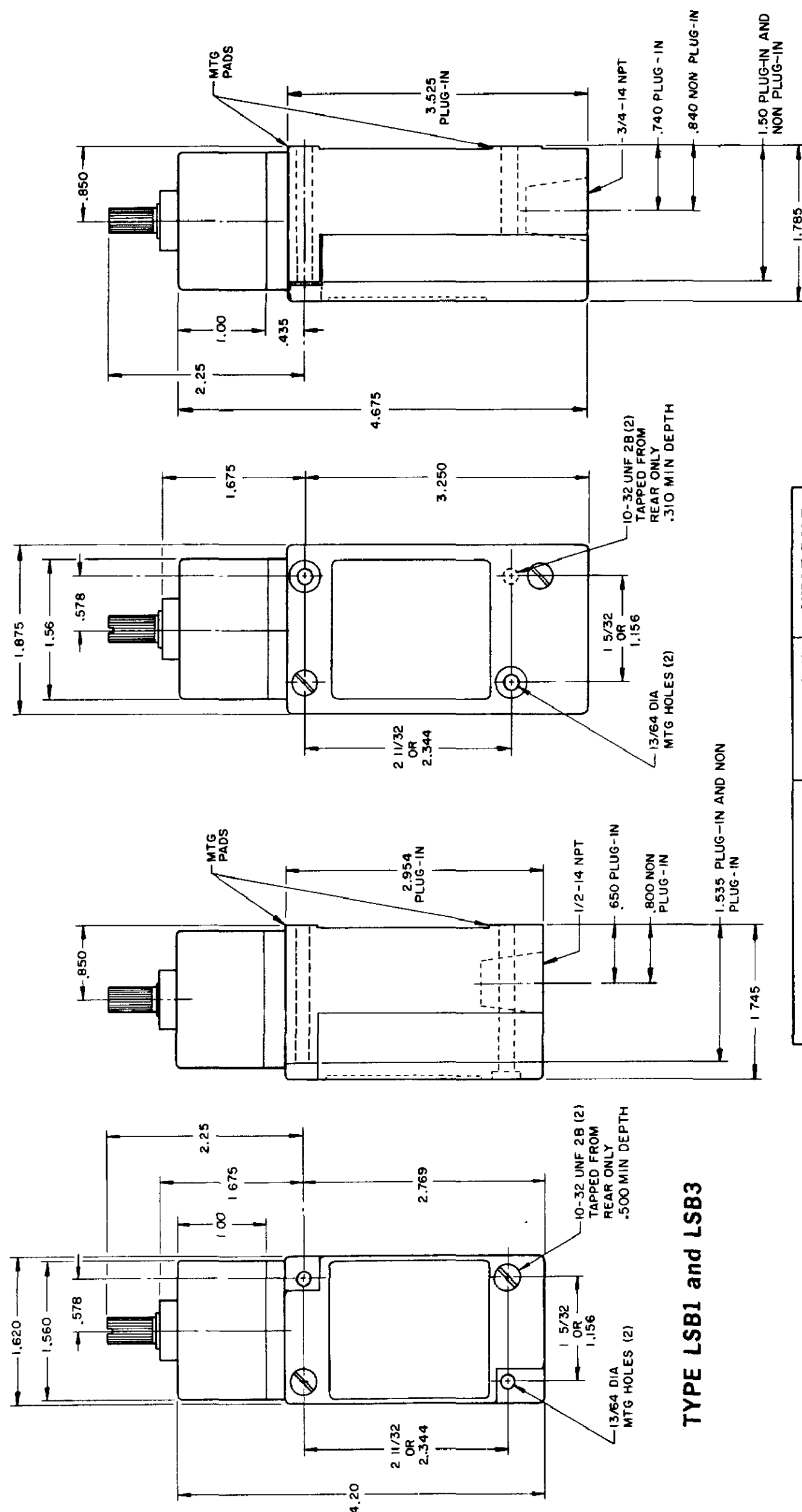
| REV | DATE    | BY   | CHK | DESCRIPTION |
|-----|---------|------|-----|-------------|
| 1   | 0031956 |      |     |             |
| 2   | 10JUL07 | BS   |     |             |
| 3   | 201004  | B    |     |             |
| 4   | 10AUG00 | C SL |     |             |
| 5   | 201748  | C    |     |             |
| 6   | 17NOV00 | C SL |     |             |
| 7   | 202198  | D    |     |             |
| 8   | 20JAN01 | E    |     |             |
| 9   | 204871  | F    |     |             |
| 10  | 206581  | F    |     |             |
| 11  | 14OCT02 | G    |     |             |
| 12  | 206763  | G    |     |             |
| 13  | 31OCT02 | H    |     |             |
| 14  | 207178  | H    |     |             |
| 15  | 14JAN03 | J    |     |             |
| 16  | 207474  | J    |     |             |
| 17  | 18FEB03 | K    |     |             |
| 18  | 0006871 | K    |     |             |

| THIRD ANGLE PROJECTION                    |        |       |  |
|-------------------------------------------|--------|-------|--|
| SCALE NONE                                |        |       |  |
| DO NOT SCALE PRINT                        |        |       |  |
| UNLESS OTHERWISE SPECIFIED TOLERANCES ARE |        |       |  |
| ONE PLACE                                 | (0)    | ±.030 |  |
| TWO PLACES                                | (.00)  | ±.015 |  |
| THREE PLACES                              | (.000) | ±.005 |  |
| ANGLES                                    |        | ±     |  |
| WEIGHT                                    |        |       |  |

# TOP ROTARY

# SINGLE POLE

# DOUBLE POLE



**TYPE LSB2 and LSB4  
LSB6 and LSB7 have 1/2" - 14 NPT  
CONDUIT HOLE**

|                         |                    |                    |
|-------------------------|--------------------|--------------------|
| PRETRAVEL MAX           | SINGLE POLE<br>25° | DOUBLE POLE<br>25° |
| OVERTRAVEL MIN          | 110°               | 110°               |
| DIFFERENTIAL TRAVEL MAX | 10°                | 12°                |
| OPERATING TORQUE MAX    | 2 5 IN. LBS        | 2 5 IN. LBS        |
| TOTAL TRAVEL (REF)      | 135°               | 135°               |

## ELECTRICAL RATINGS

| 10 AMP CONT. | A.C. VOLTAGE | AMPS AT 35 POWER FACTOR |       |     |             |       |  |
|--------------|--------------|-------------------------|-------|-----|-------------|-------|--|
|              |              | SINGLE POLE             |       |     | DOUBLE POLE |       |  |
|              |              | MAKE                    | BREAK |     | MAKE        | BREAK |  |
|              | 120          | 60                      | 6     | 30  | 3           |       |  |
|              | 240          | 30                      | 3     | 15  | 1.5         |       |  |
|              | 480          | 15                      | 1.5   | 7.5 | 75          |       |  |
|              | 600          | 12                      | 1.2   | 6   | 6           |       |  |

| D. C. VOLTAGE | MAKE & BREAK<br>INDUCTIVE | RESISTIVE |
|---------------|---------------------------|-----------|
| 120           | 0.25                      | 0.80      |
| 240           | 0.15                      | 0.40      |

ELECTRONIC DUTY BASIC SWITCH  
10 AMP CONT

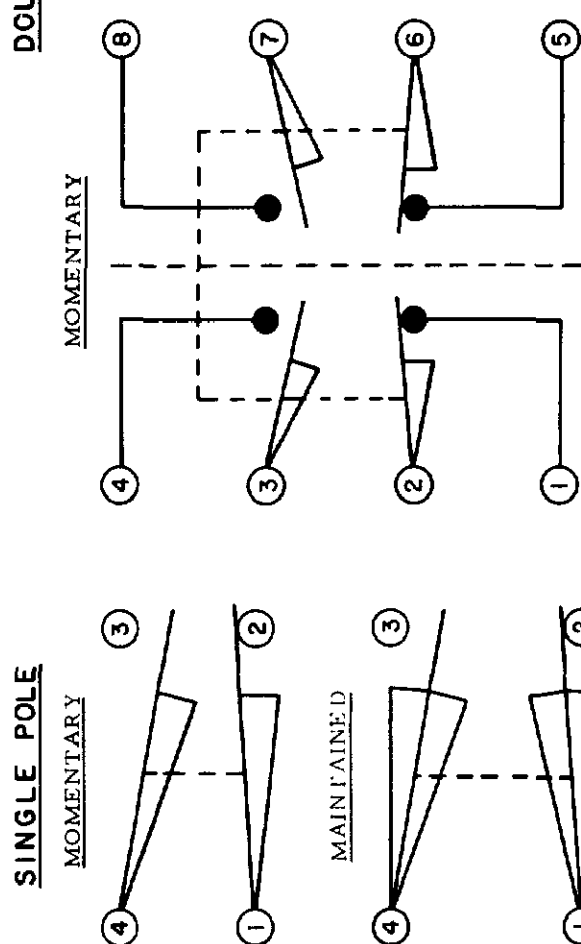
|                |            |
|----------------|------------|
| VOLTAGE        |            |
| 5 AC OR DC MIN | 01 AMP MIN |
| 600 AC         | 720 VA     |
| 240 DC         | 30 WATT    |

**DIRECT ACTING (ALSO RATED AT A. C. 10  
AMP CONT.)**

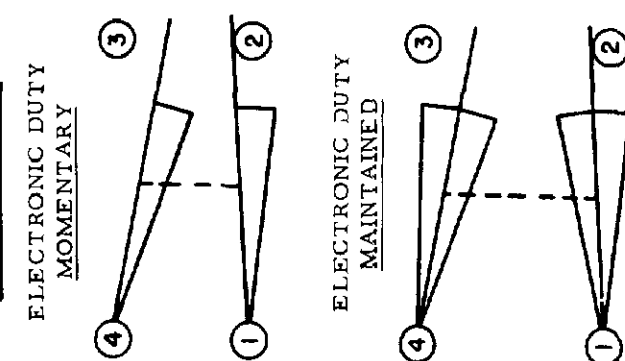
| D. C. VOLTAGE | MAKE AND BREAK AMPS |           |
|---------------|---------------------|-----------|
|               | INDUCTIVE           | RESISTIVE |
| 30            | 4.2                 | 4.2       |
| 120           | 1.1                 | 1.1       |
| 240           | .55                 | .55       |

**WIRING BASIC SWITCH  
(SAME POLARITY MUST BE OBSERVED FOR EACH POLE)**

**DOUBLE POLE**



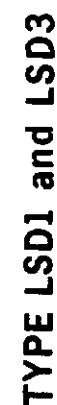
## SINGLE POLE



**DIRECT ACTING** 

# SINGLE POLE

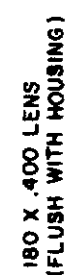
# DOUBLE POLE



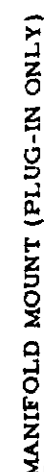
#### TYPE LSD2 and LSD4

**\*(LSD6 and LSD7**

have 1/2 - 14 NPT CONDUIT HOLE)



**TYPE LSC2  
and LSC4**



## SINGLE POLE AND DOUBLE POLE

**TYPE LSA THROUGH LSW SERIES**

**TYPE LSV2  
and LSV4**

PAGE 4 OF 10

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**MICRO SWITCH**  
a Honeywell Division

SWITCH - ENCLOSED

CATALOG LISTING

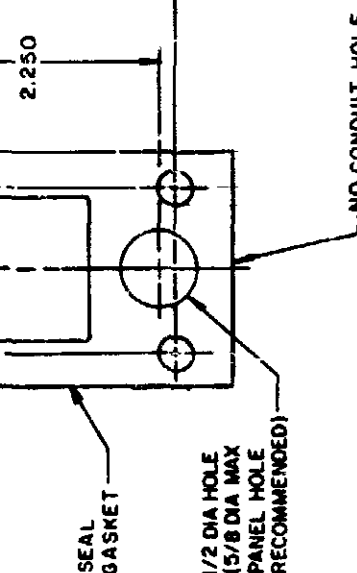
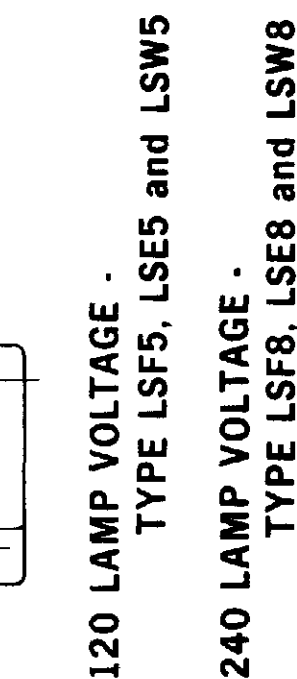
**LSA-LSW SERIES**

**CHART 1**

SCALE NONE

DO NOT SCALE PRINT

SINGLE POLE



SCALE NONE

DO NOT SCALE PRINT



### TYPE LSG1 and LSG3

INITIAL POSITION —  
(FREE POSITION) } PRETRAVEL  
DIFFERENTIAL TRAVEL  
OPERATING POINT } OVERTRAVEL  
FULL TRAVEL —

OPERATING POINT GIVEN  
IN RELATION TO TOP  
MOUNTING HOLE

| SIDE | PLUNGER | TYPES |
|------|---------|-------|
| 1    | 1       | 1     |
| 2    | 2       | 2     |
| 3    | 3       | 3     |
| 4    | 4       | 4     |
| 5    | 5       | 5     |
| 6    | 6       | 6     |
| 7    | 7       | 7     |
| 8    | 8       | 8     |
| 9    | 9       | 9     |
| 10   | 10      | 10    |
| 11   | 11      | 11    |
| 12   | 12      | 12    |
| 13   | 13      | 13    |
| 14   | 14      | 14    |
| 15   | 15      | 15    |
| 16   | 16      | 16    |
| 17   | 17      | 17    |
| 18   | 18      | 18    |
| 19   | 19      | 19    |
| 20   | 20      | 20    |
| 21   | 21      | 21    |
| 22   | 22      | 22    |
| 23   | 23      | 23    |
| 24   | 24      | 24    |
| 25   | 25      | 25    |
| 26   | 26      | 26    |
| 27   | 27      | 27    |
| 28   | 28      | 28    |
| 29   | 29      | 29    |
| 30   | 30      | 30    |
| 31   | 31      | 31    |
| 32   | 32      | 32    |
| 33   | 33      | 33    |
| 34   | 34      | 34    |
| 35   | 35      | 35    |
| 36   | 36      | 36    |
| 37   | 37      | 37    |
| 38   | 38      | 38    |
| 39   | 39      | 39    |
| 40   | 40      | 40    |
| 41   | 41      | 41    |
| 42   | 42      | 42    |
| 43   | 43      | 43    |
| 44   | 44      | 44    |
| 45   | 45      | 45    |
| 46   | 46      | 46    |
| 47   | 47      | 47    |
| 48   | 48      | 48    |
| 49   | 49      | 49    |
| 50   | 50      | 50    |
| 51   | 51      | 51    |
| 52   | 52      | 52    |
| 53   | 53      | 53    |
| 54   | 54      | 54    |
| 55   | 55      | 55    |
| 56   | 56      | 56    |
| 57   | 57      | 57    |
| 58   | 58      | 58    |
| 59   | 59      | 59    |
| 60   | 60      | 60    |
| 61   | 61      | 61    |
| 62   | 62      | 62    |
| 63   | 63      | 63    |
| 64   | 64      | 64    |
| 65   | 65      | 65    |
| 66   | 66      | 66    |
| 67   | 67      | 67    |
| 68   | 68      | 68    |
| 69   | 69      | 69    |
| 70   | 70      | 70    |
| 71   | 71      | 71    |
| 72   | 72      | 72    |
| 73   | 73      | 73    |
| 74   | 74      | 74    |
| 75   | 75      | 75    |
| 76   | 76      | 76    |
| 77   | 77      | 77    |
| 78   | 78      | 78    |
| 79   | 79      | 79    |
| 80   | 80      | 80    |
| 81   | 81      | 81    |
| 82   | 82      | 82    |
| 83   | 83      | 83    |
| 84   | 84      | 84    |
| 85   | 85      | 85    |
| 86   | 86      | 86    |
| 87   | 87      | 87    |
| 88   | 88      | 88    |
| 89   | 89      | 89    |
| 90   | 90      | 90    |
| 91   | 91      | 91    |
| 92   | 92      | 92    |
| 93   | 93      | 93    |
| 94   | 94      | 94    |
| 95   | 95      | 95    |
| 96   | 96      | 96    |
| 97   | 97      | 97    |
| 98   | 98      | 98    |
| 99   | 99      | 99    |
| 100  | 100     | 100   |

PAGE 6 OF 10

SWITCH - ENCLOSED

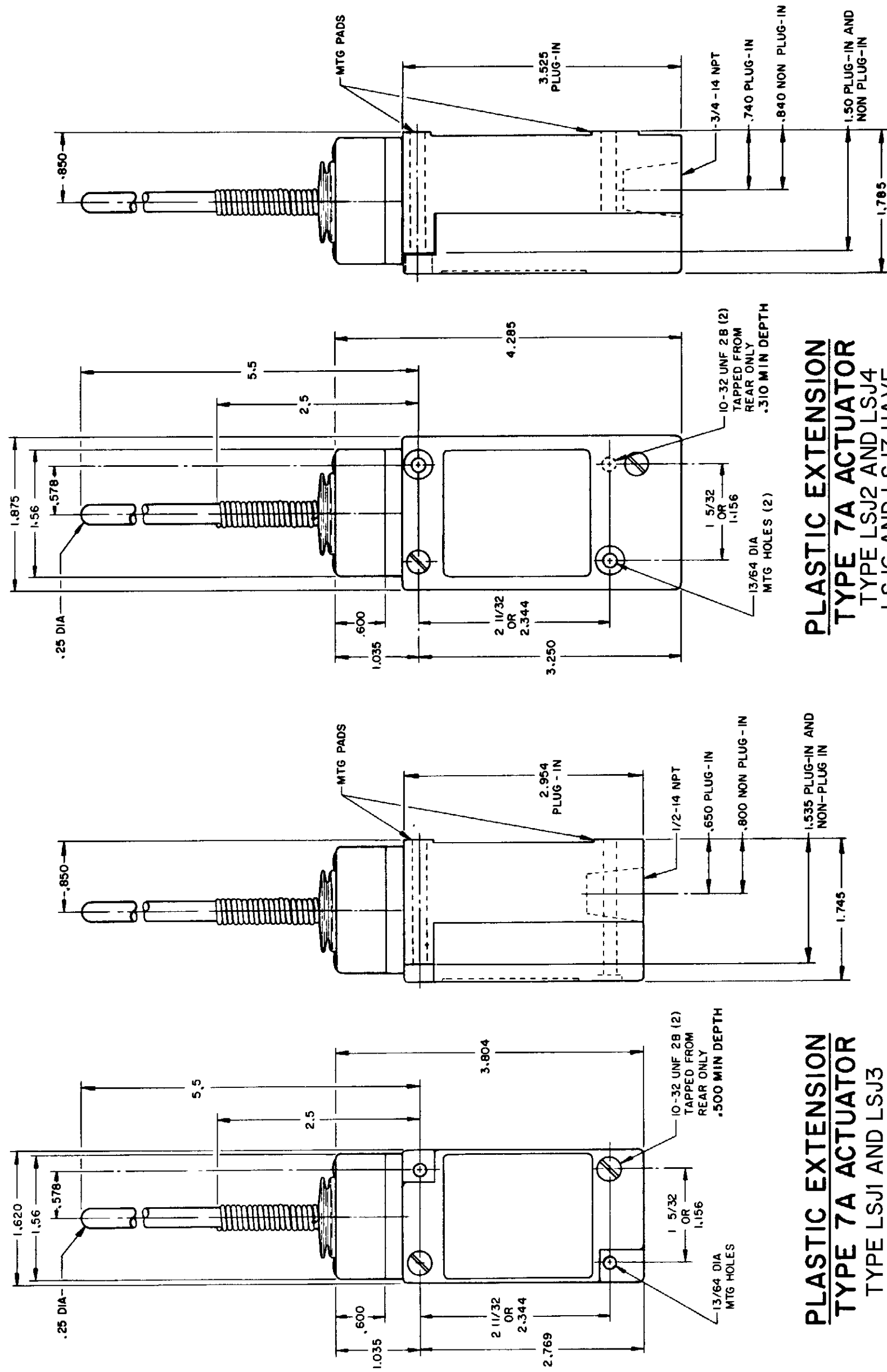
CATALOG LISTING

**LSA-LSW SERIES**

**CHART 1**

SCALE NONE  
DO NOT SCALE PRINT  
UNLESS  
DIMENSIONS ARE IN  
TOLERANCES  
ONE PLACE (0)  
TWO PLACE (.001)  
THREE PLACE (.000)  
ANGLES  
WEIGHT

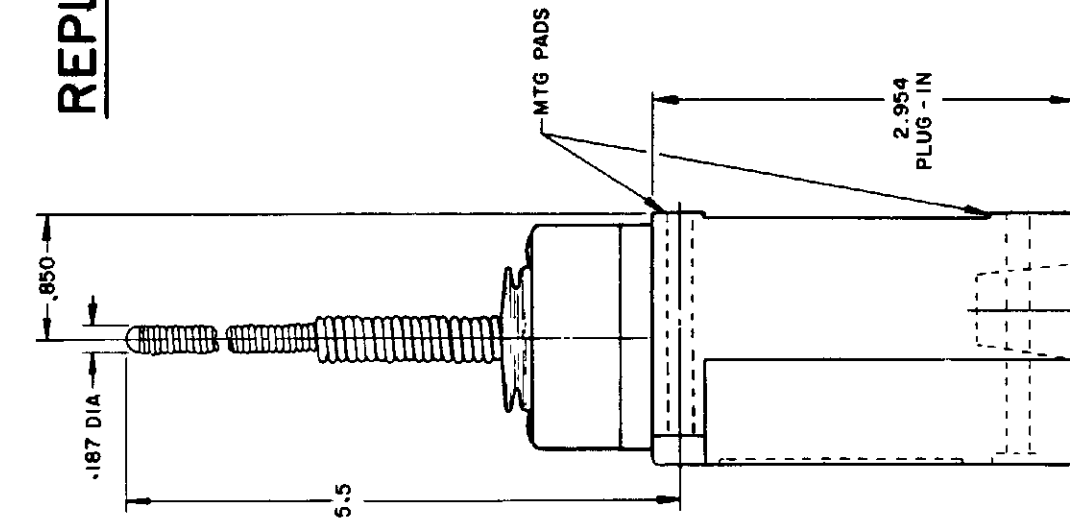
WOBBLE STICK  
SINGLE POLE  
DOUBLE POLE



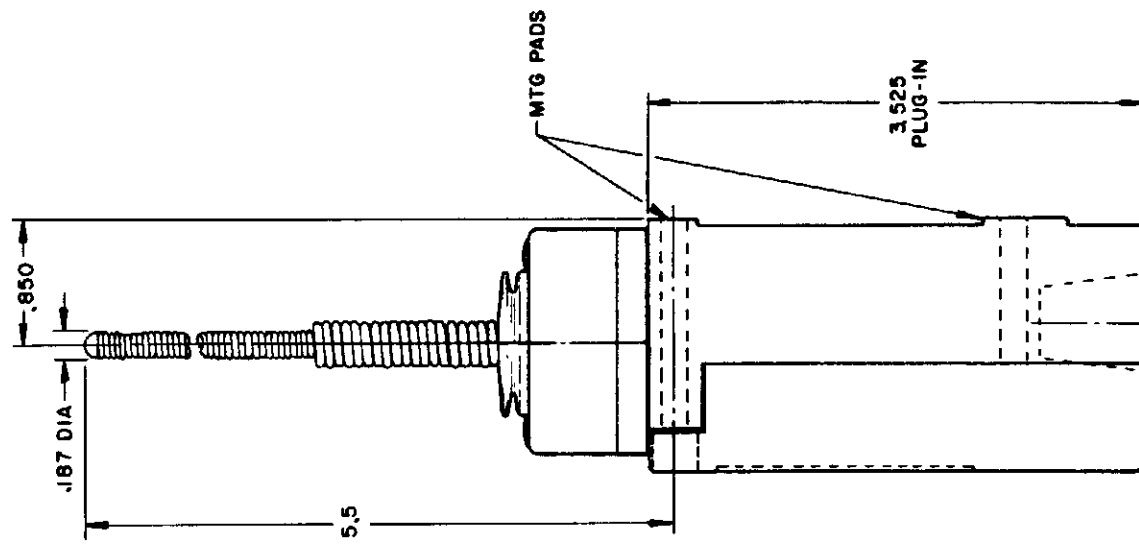
**PLASTIC EXTENSION**  
**TYPE 7A ACTUATOR**  
TYPE LSJ1 AND LSJ3

**PLASTIC EXTENSION**  
**TYPE 7A ACTUATOR**  
TYPE LSJ2 AND LSJ4  
LSJ6 AND LSJ7 HAVE  
1/2 - 14 NPT CONDUIT HOLE

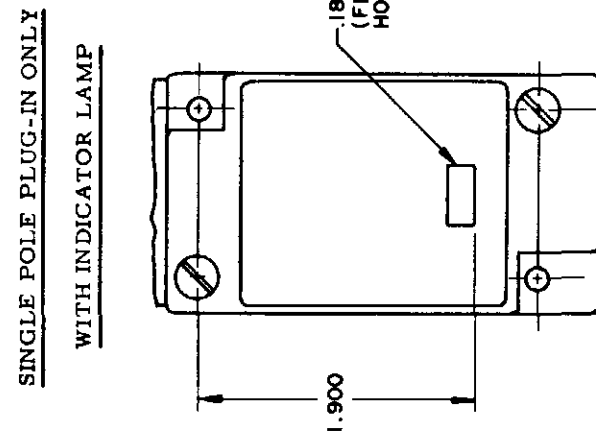
**REPLACEMENT ACTUATOR**  
**LSZ-4009**



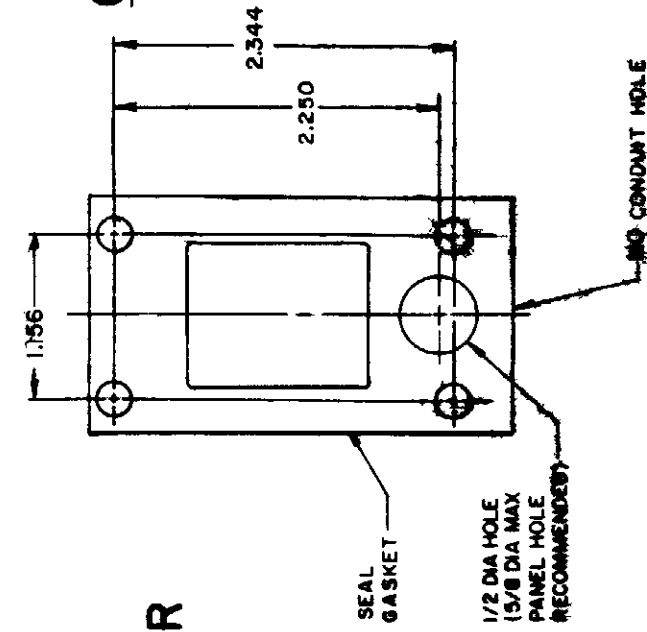
**CABLE EXTENSION**  
**TYPE 7 N ACTUATOR**



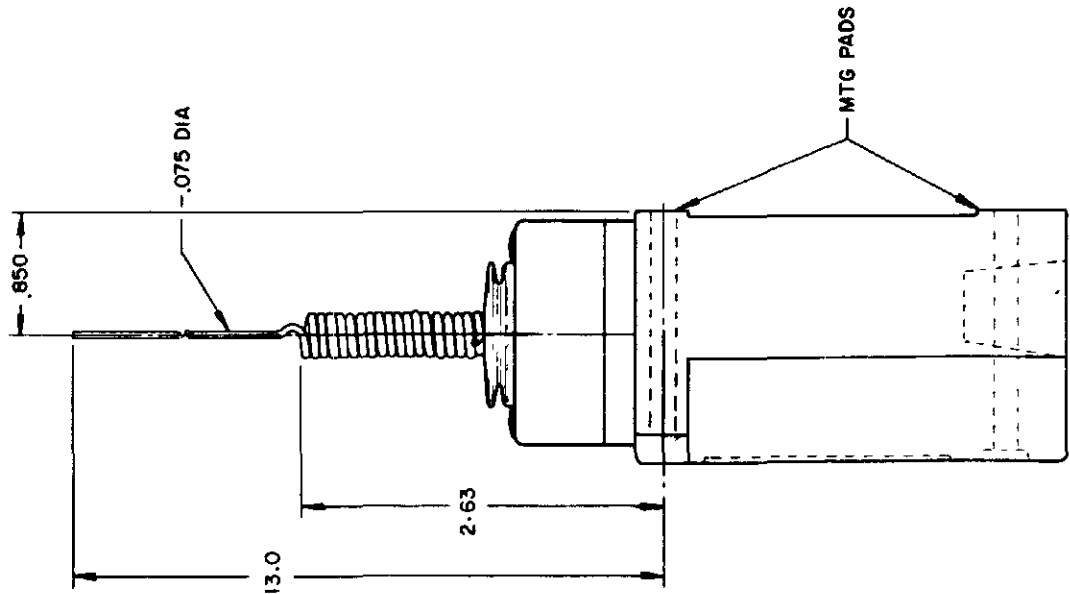
**CABLE EXTENSION**  
**TYPE 7 N ACTUATOR**



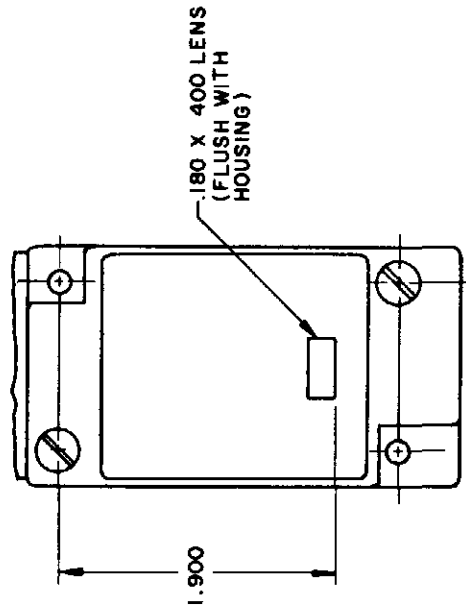
**120 LAMP VOLTAGE TYPE LSJ5**  
**240 LAMP VOLTAGE TYPE LSJ8**  
**24 LED VOLTAGE TYPE LSJ9**



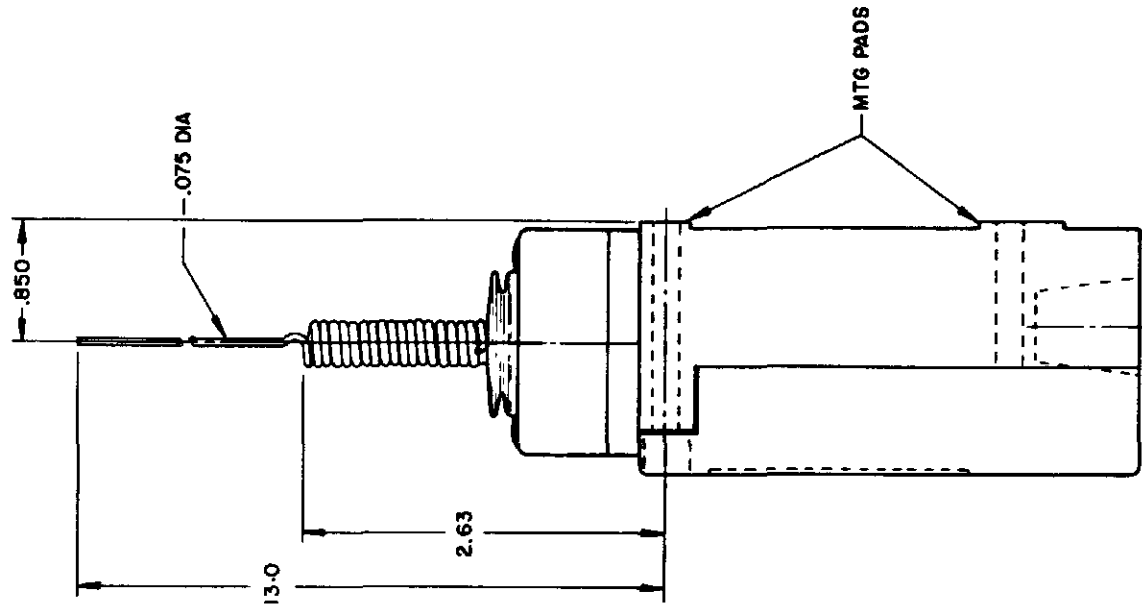
**REPLACEMENT ACTUATOR**  
**LSZ-40II**



SINGLE POLE PLUG-IN ONLY  
WITH INDICATOR LAMP



120 LAMP VOLTAGE TYPE LSJ5  
240 LAMP VOLTAGE TYPE LSJ8



WIRE EXTENSION TYPE 7M ACTUATOR

TYPE LSJ1 and LSJ3

WIRE EXTENSION TYPE 7M ACTUATOR

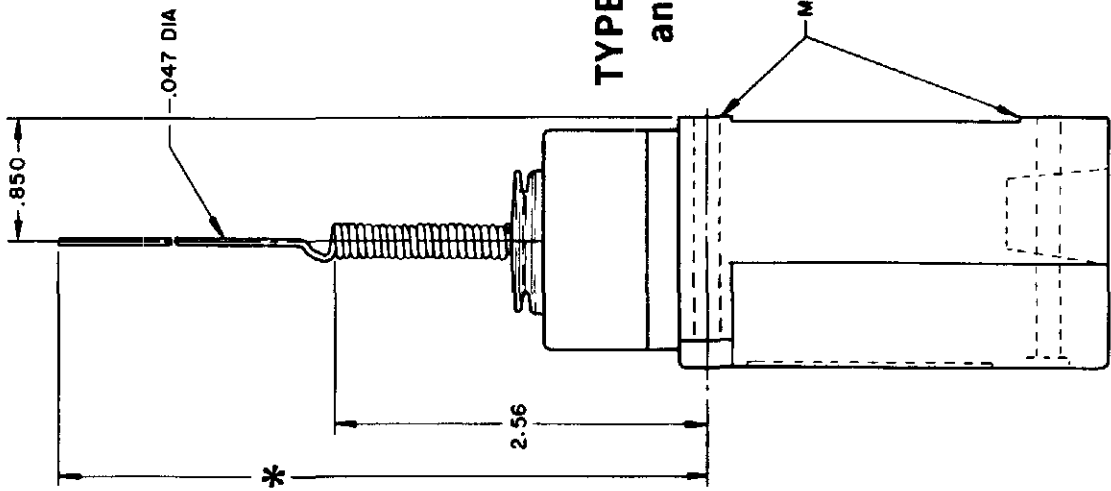
TYPE LSJ2 and LSJ4

LSJ6 and LSJ7 have 1/2 - 14 NPT CONDUIT HOLE

REPLACEMENT ACTUATOR - LSZ 4010

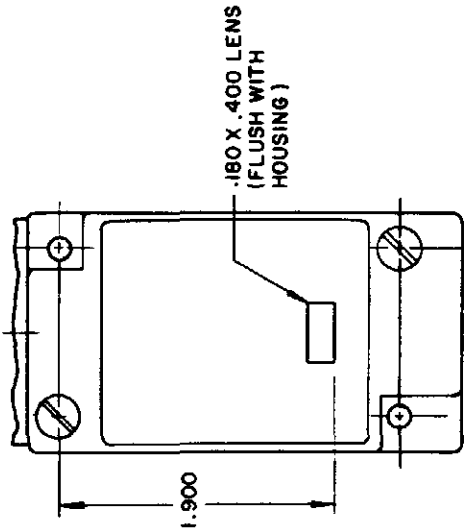
## CAT WHISKER

SINGLE POLE



TYPE LSK1  
and LSK3

SINGLE POLE PLUG-IN ONLY  
WITH INDICATOR LAMP



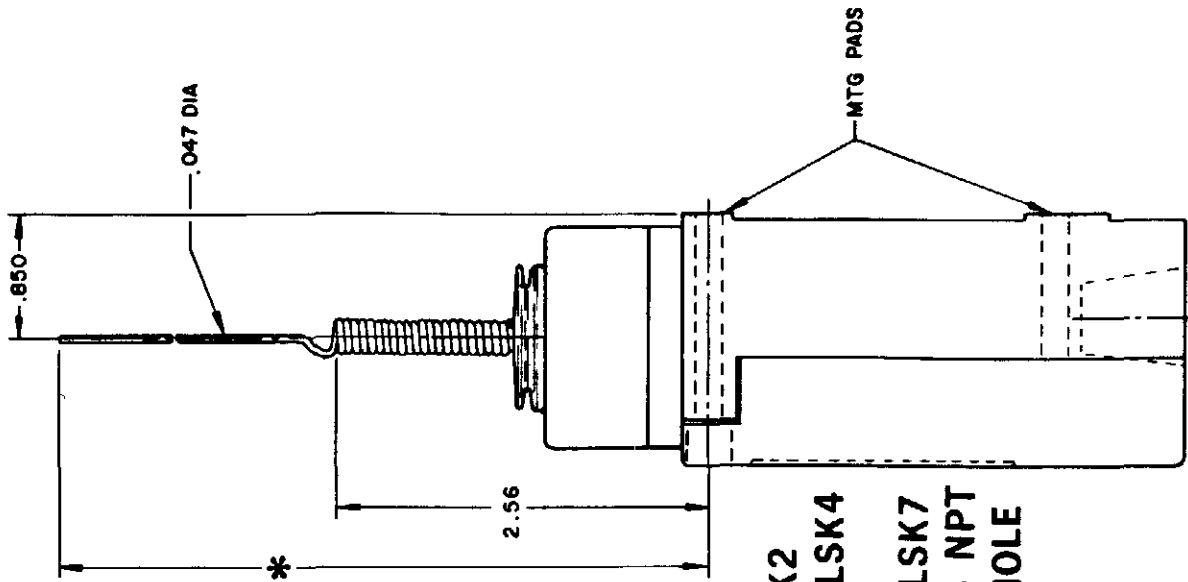
120 LAMP VOLTAGE

TYPE LSK5 - CAT WHISKER TYPE LSB5 - TOP ROTARY

240 LAMP VOLTAGE

TYPE LSK8 - CAT WHISKER TYPE LSB8 - TOP ROTARY

DOUBLE POLE



TYPE LSK2  
and LSK4

LSK6 and LSK7  
have 1/2 - 14 NPT  
CONDUIT HOLE

\* WIRE EXTENSION REPLACEMENT ACTUATOR

TYPE 8A ACTUATOR 5.5 IN.-LSZ 4012

TYPE 8B ACTUATOR 7.5 IN.-LSZ 4013

TYPE 8C COIL ACTUATOR 5.5 IN.-LSZ 4014  
ACTUATOR 9.5 IN. - LSZ 4036

WIRE EXTENSION

\* TYPE 8A ACTUATOR 5.5 IN.

TYPE 8B ACTUATOR 7.5 IN.

TYPE 8C ACTUATOR 5.5 IN.

TYPE 8D ROD ACTUATOR 5.5 IN.

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FED MFG CODE 91929

SWITCH - ENCLOSED

CATALOG LISTING  
**LSA-LSW SERIES**  
CHART 1

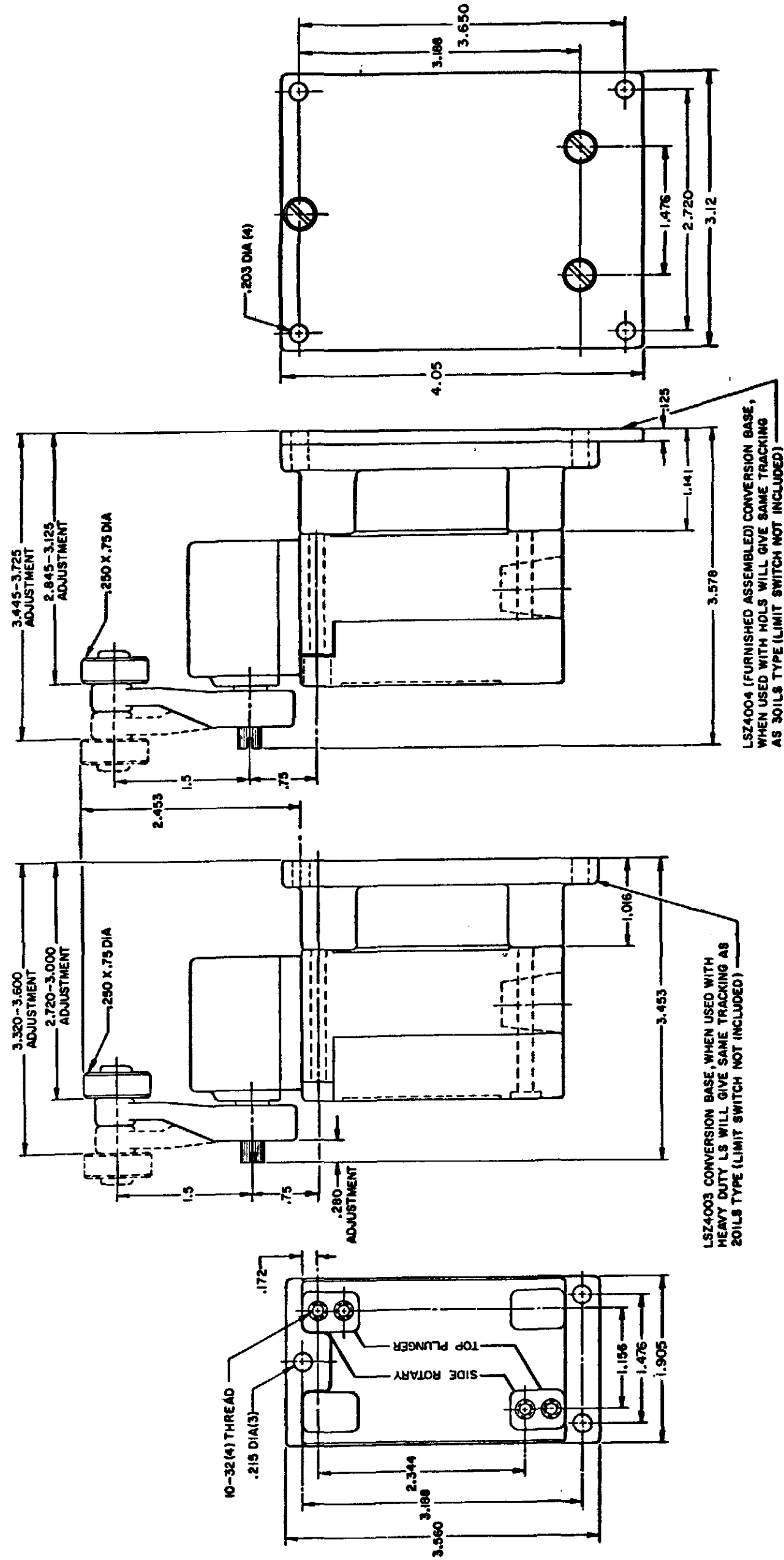
SCALE NONE  
DO NOT SCALE PRINT

| PRETRAVEL (APPROX) IN. RADIUS | CAT. WHISKER |            | WOBBLE STICK |            |
|-------------------------------|--------------|------------|--------------|------------|
|                               | 5/16" COIL   | 5/16" WIRE | 7/16" WIRE   | 7/16" WIRE |
|                               | 2            | 2          | 4.5          | 4.0        |
| OPERATING FORCE-OZ (MAX)      | 7.0          |            | 10.0         | 5.0        |
|                               | 5.0          | 3.0        | 7.0          | 5.0        |

# CONVERSION BASES

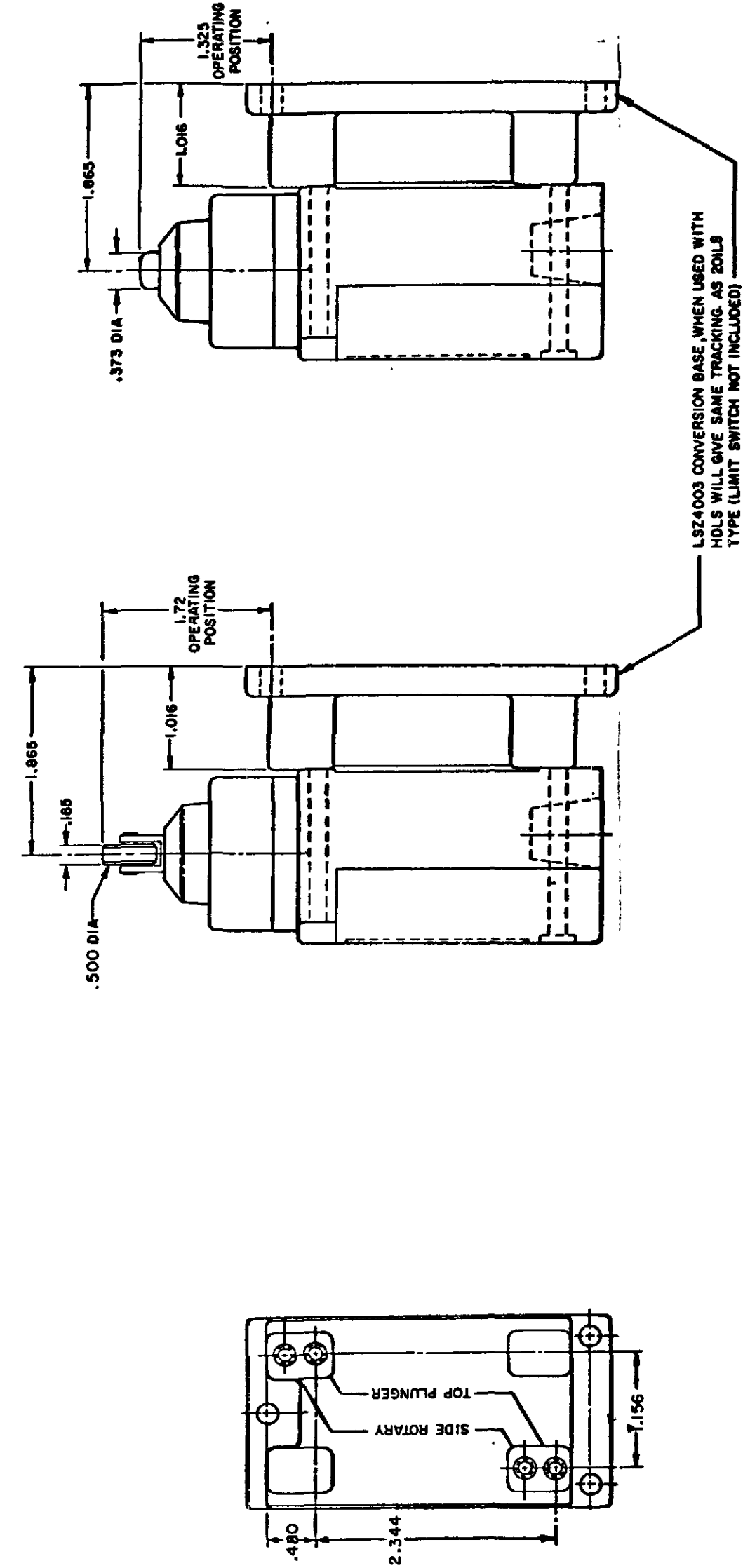
# SINGLE POLE (SIDE ROTARY) LSZ 4003

**DOUBLE POLE  
(SIDE ROTARY)  
LSZ4004**



NOTE  
SEE OTHER PAGES OF LSA-LSW  
(M) DRAWING FOR DIMENSION OF LIMITS

# SINGLE POLE TOP PLUNGER LSZ4003



NOTE  
SEE OTHER PAGES OF LSA-LSW  
(M) DRAWING FOR DIMENSION OF  
LIMIT SWITCH

|                                                                                                                                                                                     |                   |                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------|
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| <b>MICRO SWITCH</b><br>a Honeywell Division<br>FED MFG CODE 91029                                                                                                                   | SWITCH - ENCLOSED | CATALOG LISTING           |
|                                                                                                                                                                                     |                   | LSA-LSW SERIES<br>CHART 1 |

SCALE FULL  
DO NOT SCALE PRINT

CODE: 1 SATISFACTORY 2 FAIR 3 DOUBTFUL 4 UNSATISFACTORY

| TEMPERATURE LIMITATIONS FOR STANDARD DEVICES |           |            |
|----------------------------------------------|-----------|------------|
| TYPES                                        | LOW LIMIT | HIGH LIMIT |
| LSA                                          | +10°F     | +250°F     |
| LSB                                          | +30°F     | +250°F     |
| LSC                                          | +10°F     | +200°F     |
| LSD                                          | +10°F     | +200°F     |
| LSE                                          | +10°F     | +200°F     |
| LSF                                          | +10°F     | +200°F     |
| LSG                                          | +30°F     | +200°F     |
| LSH                                          | +30°F     | +250°F     |
| LSJ                                          | +10°F     | +200°F     |
| LSK                                          | +10°F     | +200°F     |
| LSL                                          | +10°F     | +250°F     |
| LSM                                          | +30°F     | +250°F     |
| LSN                                          | +30°F     | +250°F     |
| LSP                                          | +10°F     | +250°F     |
| LSR                                          | +30°F     | +250°F     |
| LSV                                          | +10°F     | +200°F     |
| LSW                                          | +10°F     | +200°F     |
| LST                                          | +30 F     | +170°F     |
| LSS                                          | +30°F     | +170°F     |

SCALE



**Стандарт  
Электрон  
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

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