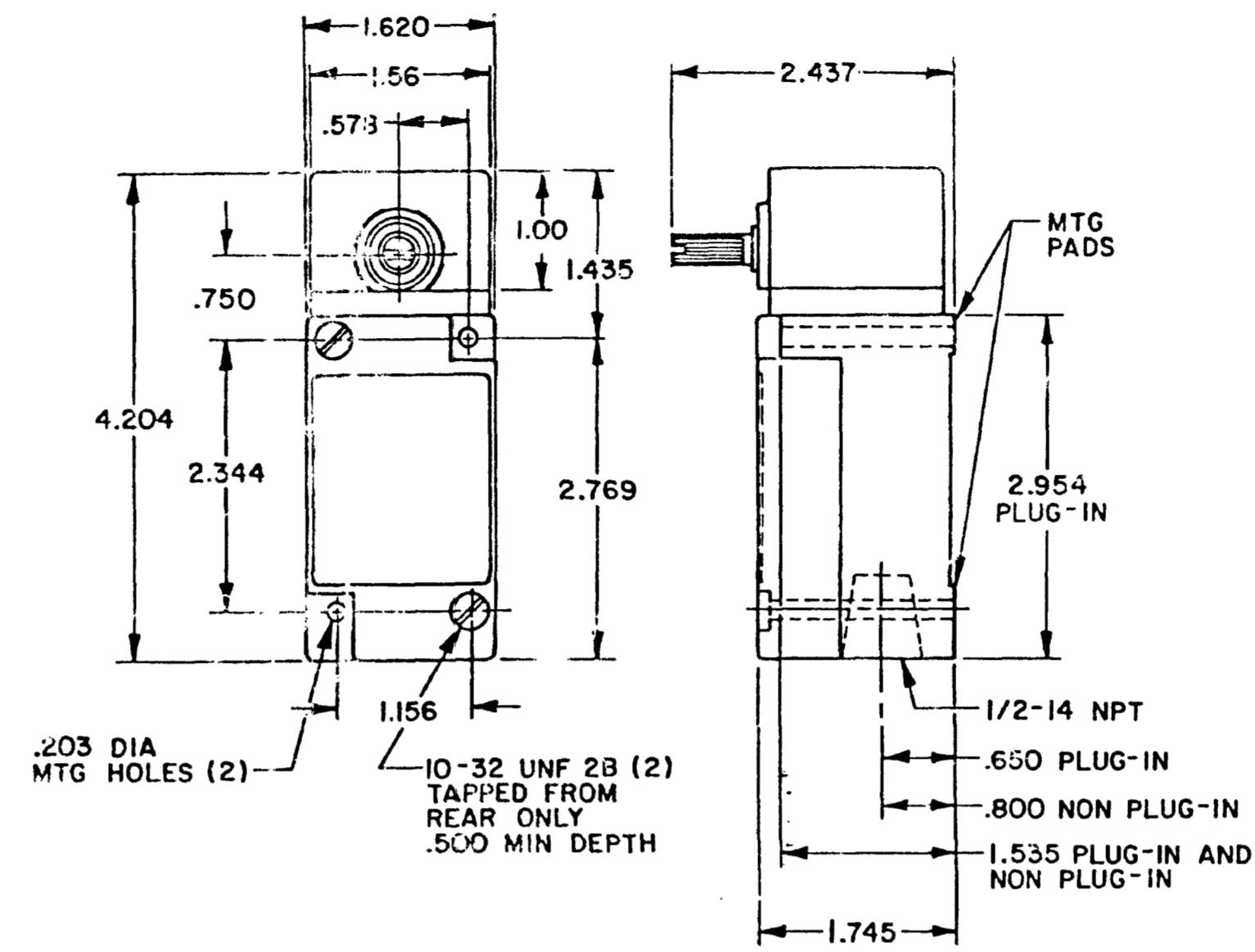


| OPERATING CHARACTERISTICS | LSA           |             | LSR                       |                                 | LSN        | LSP                                      |             | LSH                                    |             |
|---------------------------|---------------|-------------|---------------------------|---------------------------------|------------|--|-------------|--|-------------|
|                           | MOMENTARY     |             | MOMENTARY LOW TORQUE      |                                 | MAINTAINED | MOMENTARY LOW PRETRAVEL AND DIFF. TRAVEL |             | MOMENTARY LOW PRETRAVEL AND LOW TORQUE |             |
| PRETRAVEL(MAX)            | 15°           |             | 15°                       |                                 | 15°        | 9°                                       |             | 9°                                     |             |
| OVERTRAVEL(MIN)           | 60°           |             | 60°                       |                                 | 20°        | 66°                                      |             | 66°                                    |             |
| DIFFERENTIAL TRAVEL(MAX)  | SINGLE POLE   | DOUBLE POLE | SINGLE POLE               | DOUBLE POLE                     | 40°        | SINGLE POLE                              | DOUBLE POLE | SINGLE POLE                            | DOUBLE POLE |
|                           | 5°            | 7°          | 5°                        | 7°                              |            | 3°                                       | 4°          | 3°                                     | 4°          |
| TOTAL TRAVEL (REF)        | 75°           |             | 75°                       |                                 | 90°        | 75°                                      |             | 75°                                    |             |
| OPERATING TORQUE(MAX)     | 4 IN. LBS     |             | 1.7 IN. LBS               |                                 | 4 IN. LBS  | 4 IN. LBS                                |             | 1.7 IN. LBS                            |             |
| FULL TRAVEL TORQUE(MAX)   | 4 IN. LBS     |             | 1.7 IN. LBS               |                                 |            | 4 IN. LBS                                |             | 1.7 IN. LBS                            |             |
| OPERATING CHARACTERISTICS | LSU           |             | LSL                       | LSM                             | LSI        | LSS                                      |             |  |             |
|                           | LOW PRETRAVEL |             | SEQUENCE DOUBLE POLE ONLY | CENTER NEUTRAL DOUBLE POLE ONLY | MOMENTARY  | GRAVITY RETURN                           |             |  |             |
| PRETRAVEL(MAX)            | 5°            |             | 1ST STEP 15°              | 18°                             | 15°        | NOT APPLICABLE                           |             |  |             |
| OVERTRAVEL(MIN)           | 70°           |             | 2ND STEP 10° ADD'L        | 57°                             | 60°        | NOT APPLICABLE                           |             |  |             |
| DIFFERENTIAL TRAVEL(MAX)  | SINGLE POLE   | DOUBLE POLE | 5°                        | 10°                             | 5°         | 12°                                      |             |  |             |
|                           | 5°            | 4°          |                           |                                 |            |  |             |  |             |
| TOTAL TRAVEL (REF)        | 75°           |             | 75°                       | 75°                             | 75°        | 360°                                     |             |  |             |
| OPERATING TORQUE(MAX)     | 4 IN. LBS     |             | 4 IN. LBS                 | 4 IN. LBS                       | 12 IN-OZ   | 5 IN-OZ                                  |             |  |             |
| FULL TRAVEL TORQUE(MAX)   | 4 IN. LBS     |             | 4 IN. LBS                 | 4 IN. LBS                       | 12 IN-OZ   | 5 IN-OZ                                  |             |  |             |

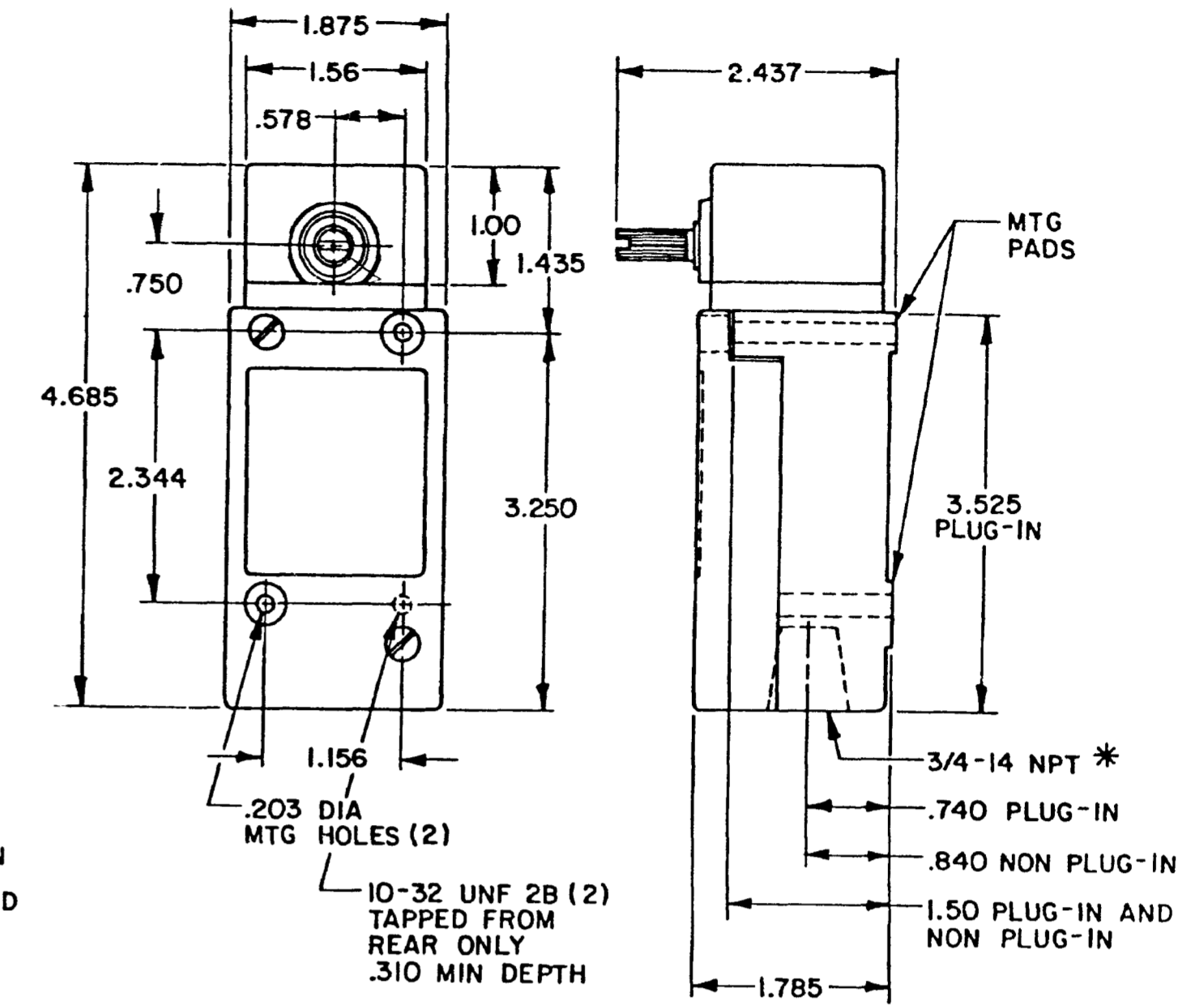
**SIDE ROTARY**

**SINGLE POLE**



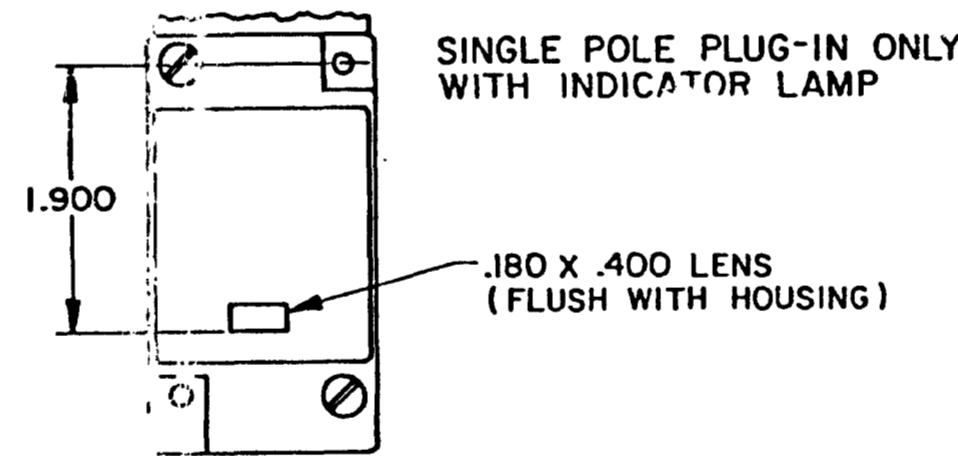
TYPE: LSA1, LSH1, LSN1, LSP1, LSR1  
LSA3, LSH3, LSN3, LSP3, LSR3  
LSS1, LST1

**DOUBLE POLE**



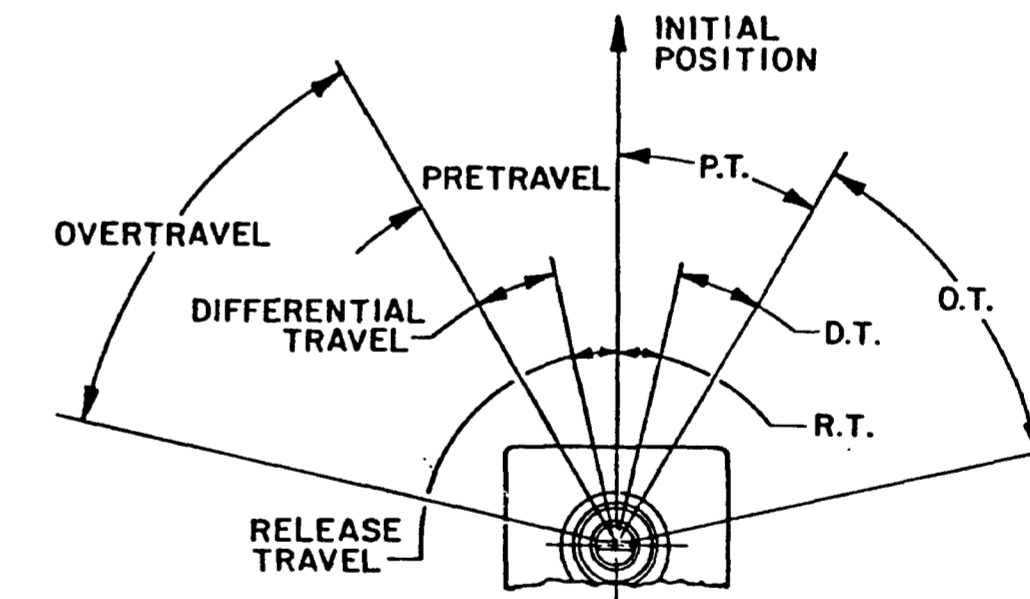
TYPE: LSA2, LSH2, LSM2, LSN2, LSP2, LSR2  
LSA4, LSH4, LSM4, LSN4, LSP4, LSR4

\*LSA6, LSH6, LSM6, LSN6, LSP6, LSR6  
LSA7, LSH7, LSM7, LSN7, LSP7, LSR7 HAVE  
1/2-14 NPT CONDUIT HOLE

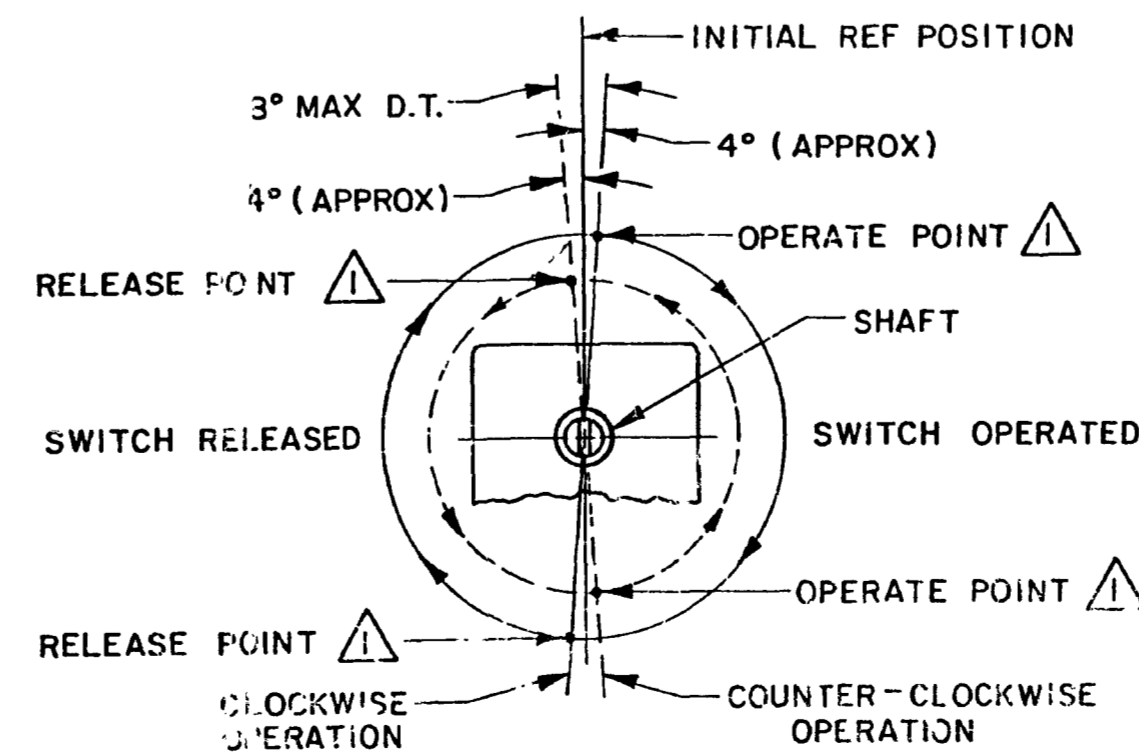


120 LAMP VOLTAGE -  
TYPE LSA5, LSH5, LSN5, LSP5, LSR5  
240 LAMP VOLTAGE -  
TYPE LSA8, LSH8, LSN8, LSP8, LSR8

**OPERATING DATA-SIDE ROTARY**

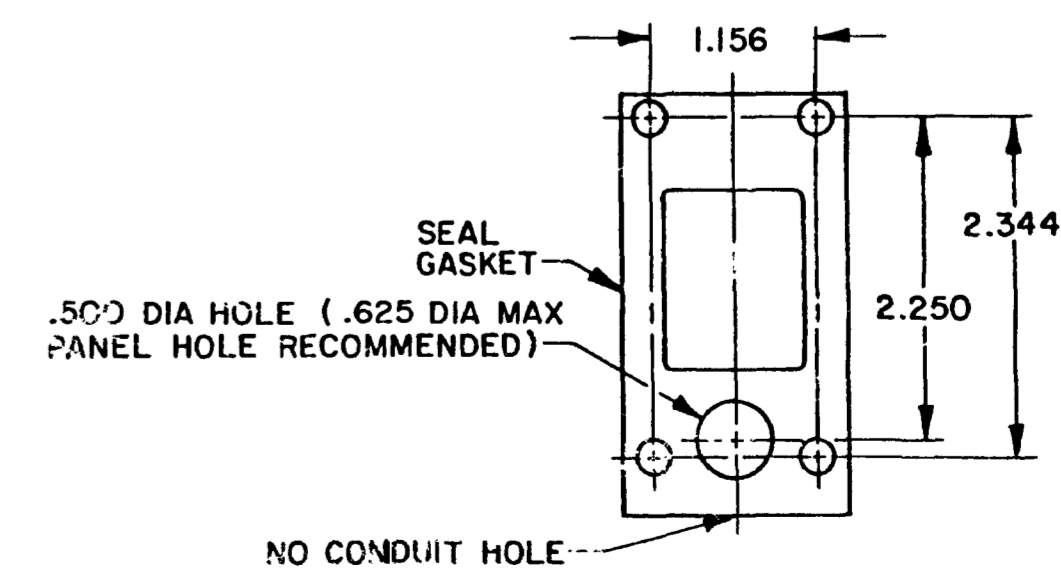


**OPERATING DATA SIDE ROTARY-GRAVITY RETURN**



NOTE  
△ OPERATE AND RELEASE POINTS WILL EXCHANGE LOCATIONS IF SHAFT IS ROTATED 180°

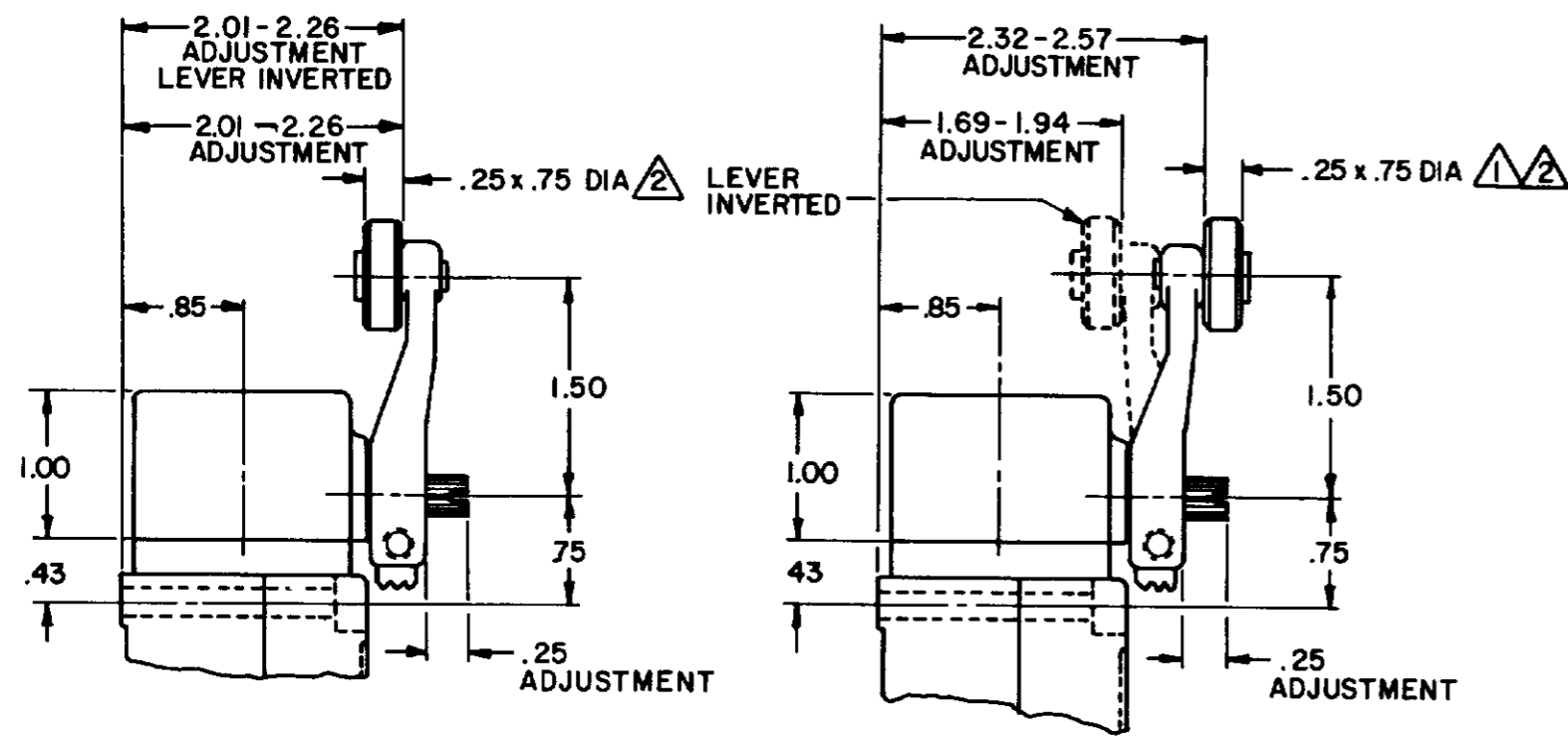
**MANIFOLD MOUNT (PLUG-IN ONLY) SINGLE POLE AND DOUBLE POLE TYPE LSA THROUGH LSW SERIES**



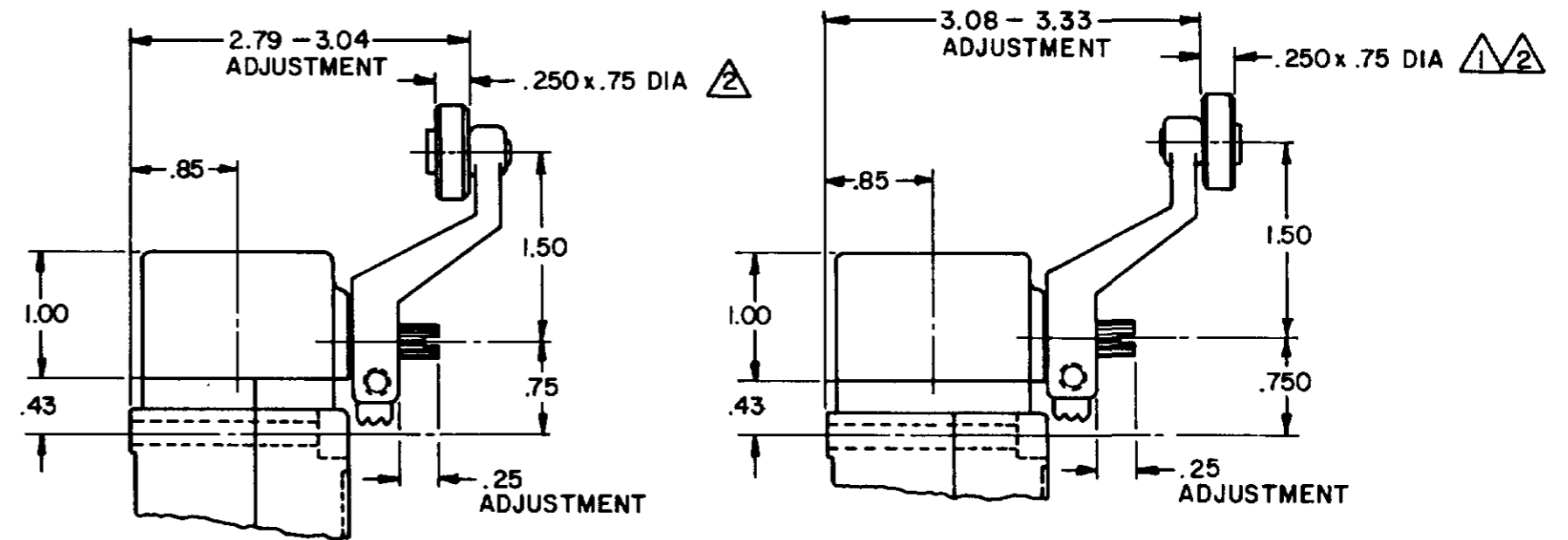
|   |       |
|---|-------|
| THIRD ANGLE PROJECTION                    |       |
| SCALE                                     | NONE  |
| DO NOT SCALE PRINT                        |       |
| UNLESS OTHERWISE SPECIFIED TOLERANCES ARE |       |
| ONE PLACE (.0)                            | ±.030 |
| TWO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

CATALOG LISTING  
**LSA-LSW SERIES CHART 1**  
PAGE 1 OF 10  
PSR 1001007 RELEASE NO. CO-78498  
REV. 11 JUN 94  
MAM 15 JUN 94  
REVISIONS  
L 0031958  
B 201004  
C 201748  
D 202198  
E 204871  
F 206551  
G 206763  
H 207179  
I 207474  
K 0068974  
11AUG04  
11 JUL 94  
11 JUN 94

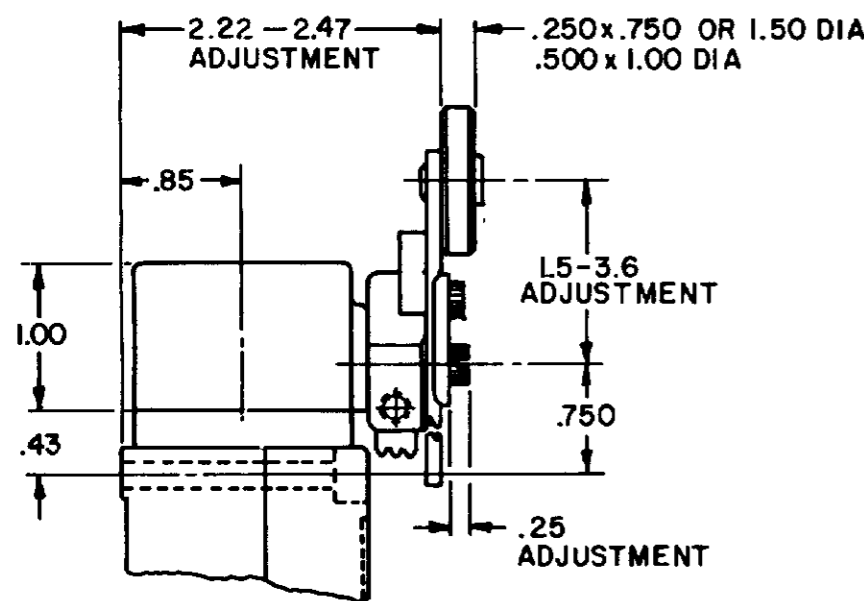
SIDE ROTARY CAM TRACKING



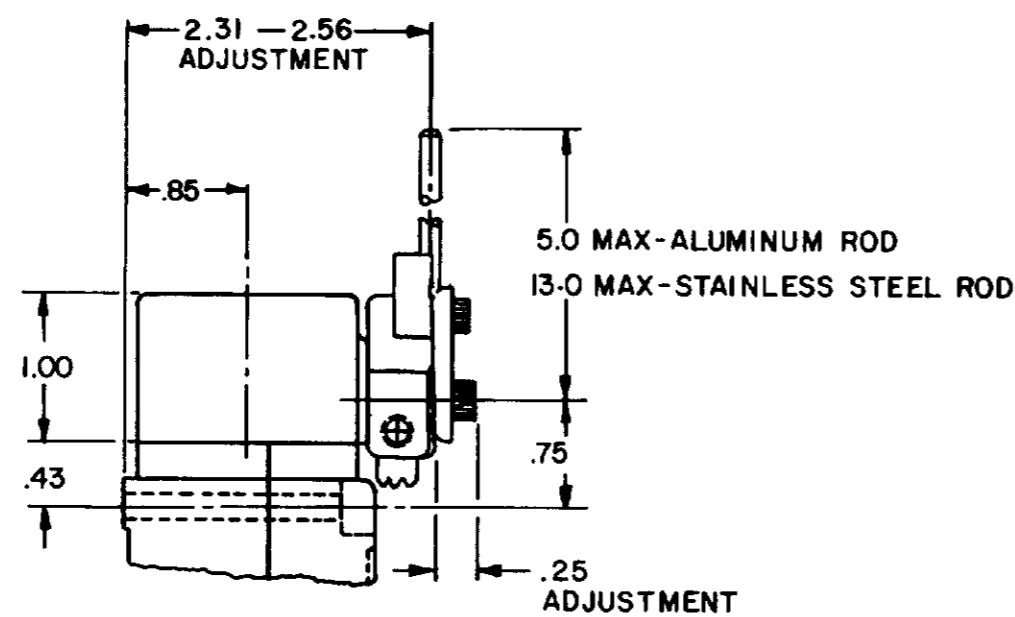
LSZ51 TYPE LEVERS



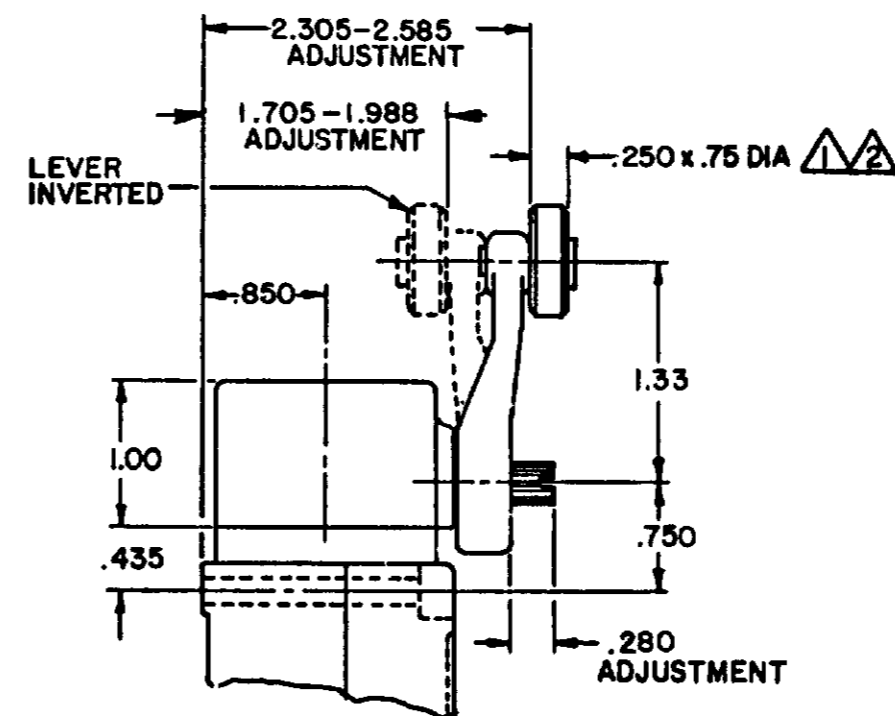
LSZ55 TYPE LEVERS



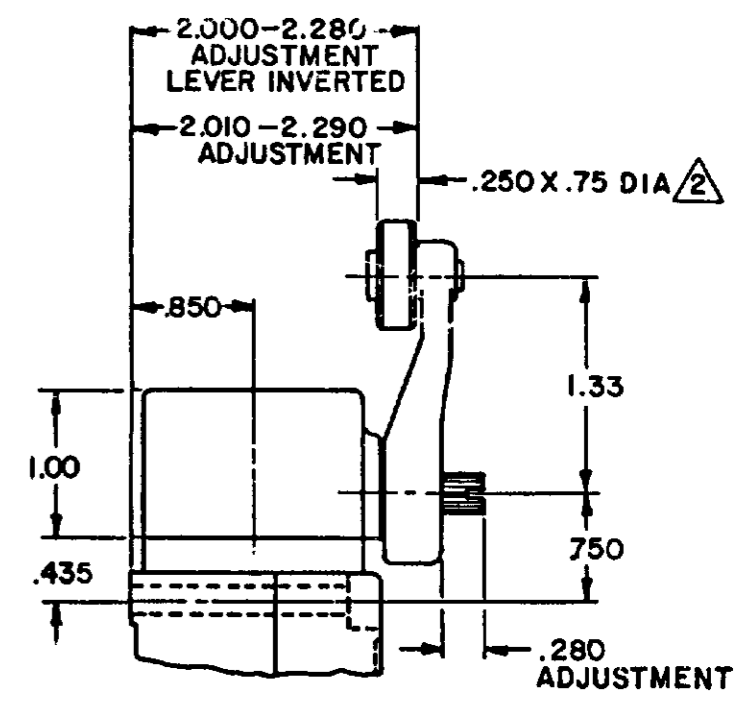
LSZ52 TYPE LEVER



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  
 ISSUE 12  
 REVISIONS: L 0031956 BS 10 JUL 07, B 201004 C.S.L. 10 AUG 00, C 201748 C.S.L. 17 NOV 00, D 202198 C.S.L. 23 JAN 01, E 204871 C.T.W. FEB 02, F 206581 G.L.H. 14 OCT 02, G 206763 C.S.L. 31 OCT 02, H 207179 G.L.H. 14 JAN 03, J 207474 S.H. 18 FEB 03, K 0006871 RR 11/06/04  
 CHECK PSR 10 JUL 07, CHECK 11AUG04, CHECK 11 JUL 94, CHECK JAF 15 JUN 94  
 REPLACES LSA-LSW SERIES  
 DRAWN MAM  
 RASTER

PAGE 2 OF 10

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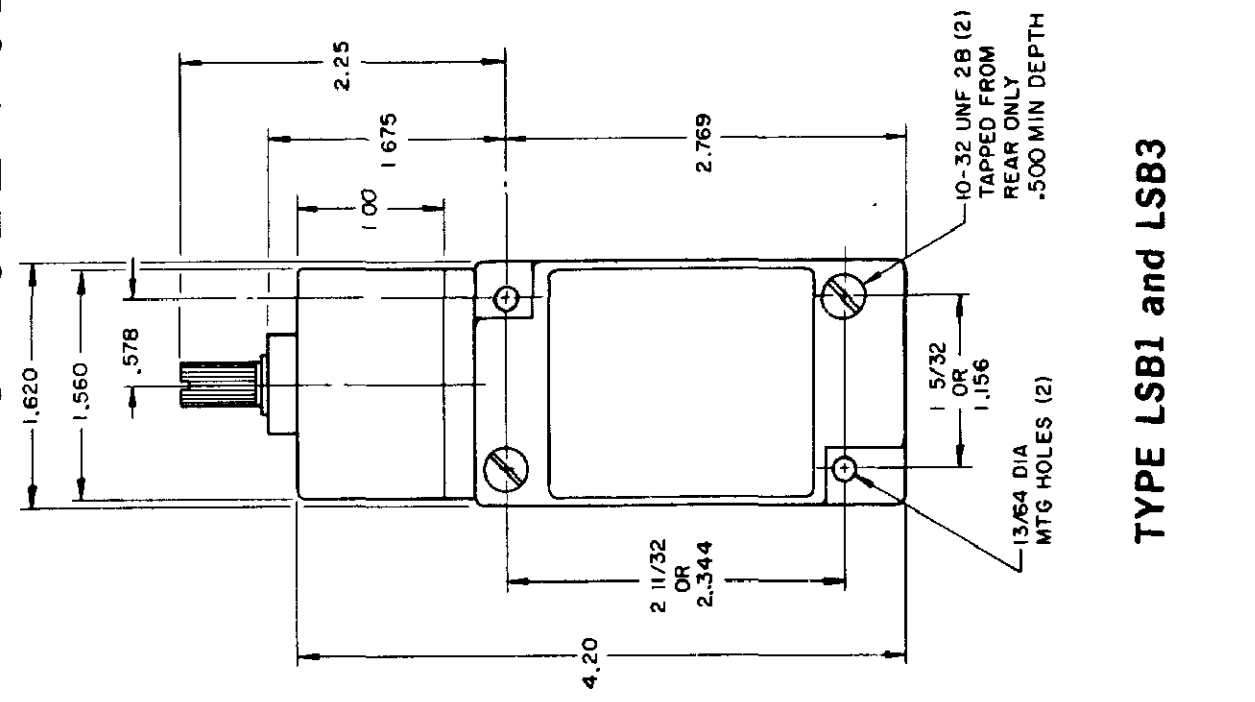
|   |                               |                 |
|---|-------------------------------|-----------------|
| <b>MICRO SWITCH</b><br>a Honeywell Division<br>FED MFG CODE 91929 | SWITCH - ENCLOSED             | CATALOG LISTING |
|   | <b>LSA-LSW SERIES CHART 1</b> |                 |

|   |       |
|---|-------|
| THIRD ANGLE PROJECTION                    |       |
| SCALE NONE                                |       |
| DO NOT SCALE PRINT                        |       |
| UNLESS OTHERWISE SPECIFIED TOLERANCES ARE |       |
| ONE PLACE ( )                             | ±.030 |
| TWO PLACES (00)                           | ±.015 |
| THREE PLACES (0.000)                      | ±.005 |
| ANGLES                                    | ±     |
| WEIGHT                                    |       |

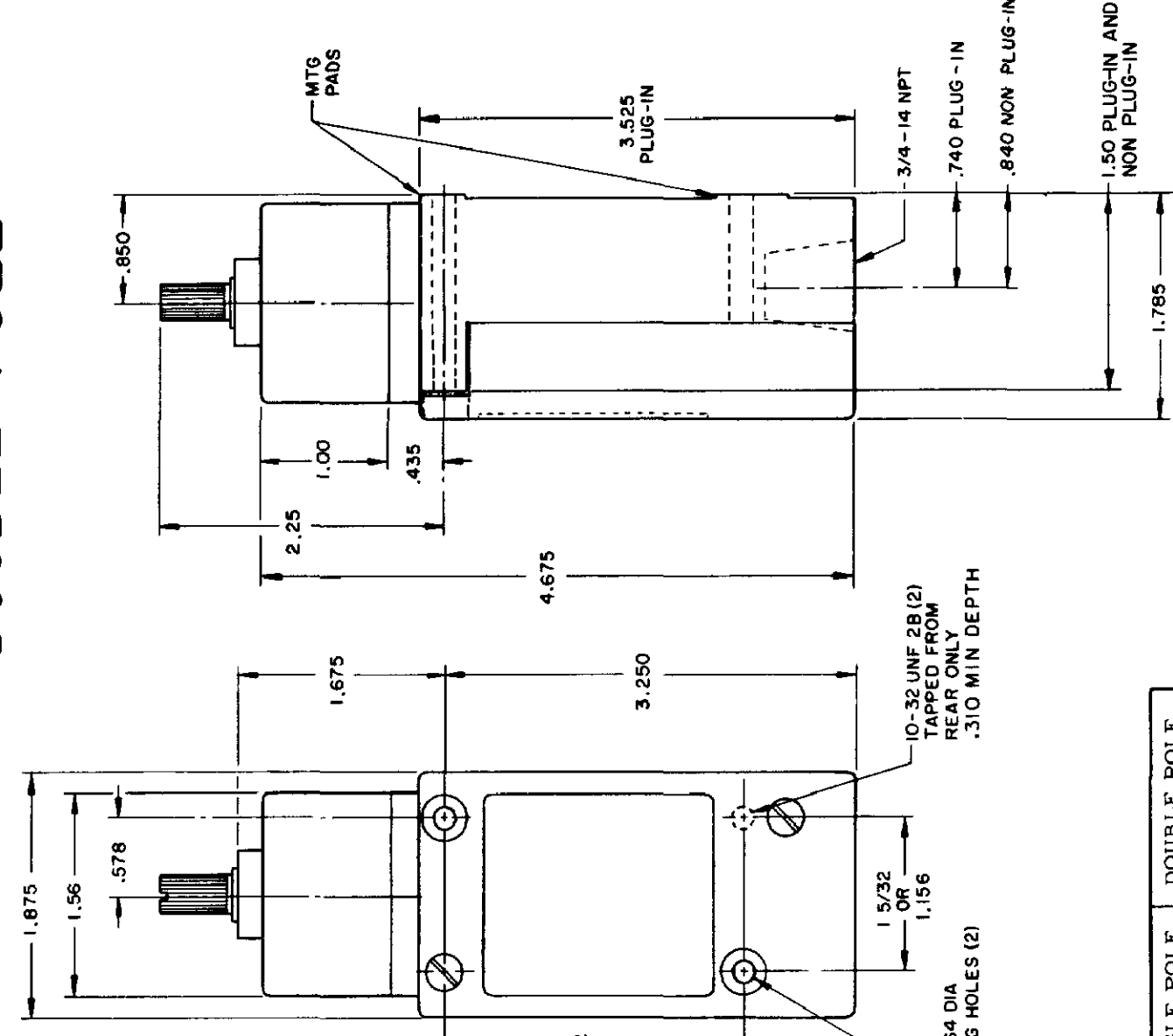
**TOP ROTARY**

**SINGLE POLE**

**DOUBLE POLE**



**TYPE LSB1 and LSB3**



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

|                         | SINGLE POLE | DOUBLE POLE |
|-------------------------|-------------|-------------|
| PRETRAVEL MAX           | 25°         | 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**

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

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

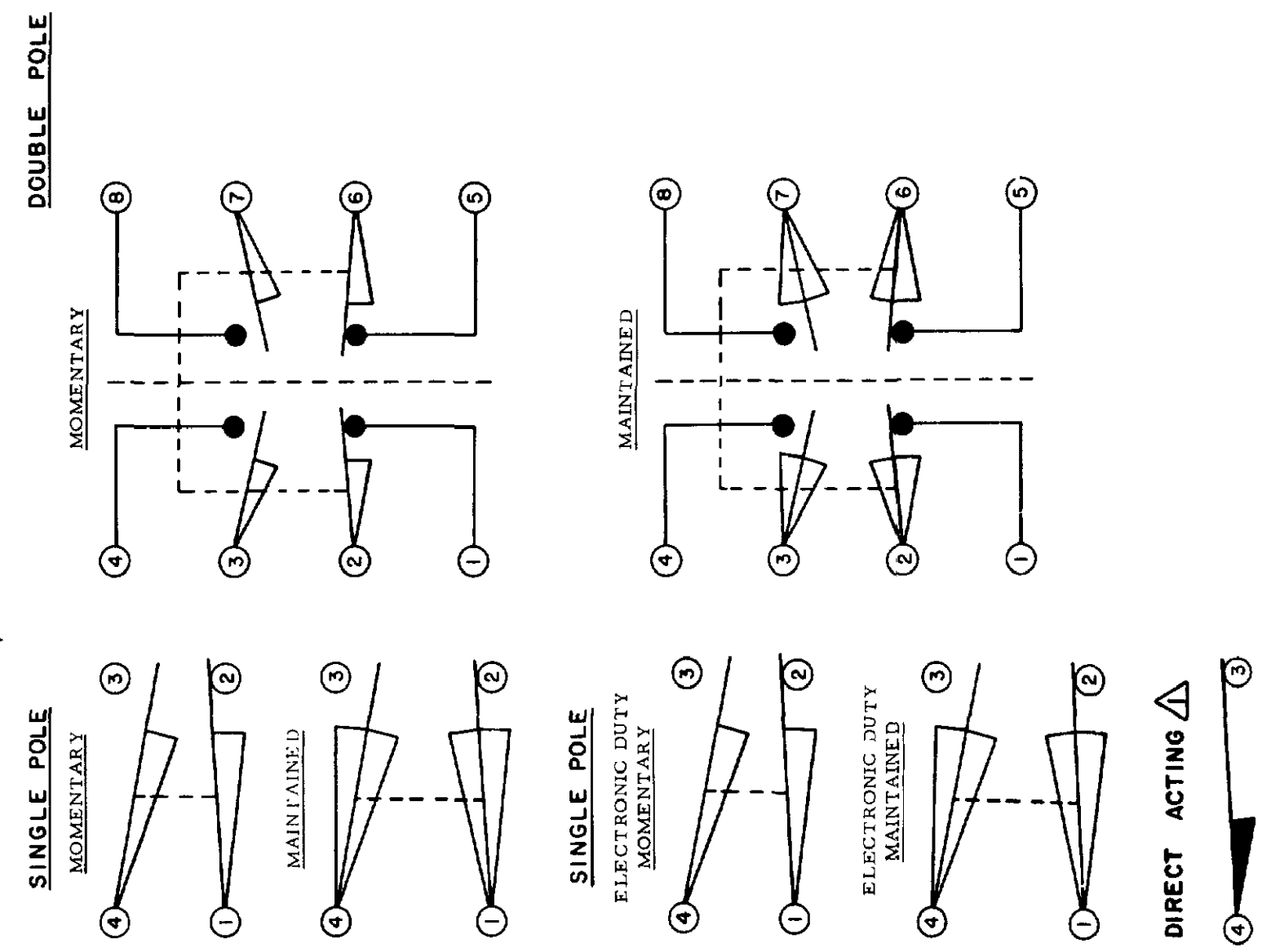
ELECTRONIC DUTY BASIC SWITCH  
 10 AMP CONT.

| VOLTAGE        | MAKE AND BREAK AMPS |
|----------------|---------------------|
| 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)



NOTES  
 Δ DIFFERENTIAL TRAVEL ON ALL OPERATING CHARACTERISTICS NOT APPLICABLE

| REVISIONS |           |
|-----------|-----------|
| L         | 0031956   |
| B         | 10 JUL 07 |
| B         | 201004    |
| C         | 10 AUG 00 |
| C         | 201748    |
| D         | 202198    |
| E         | 204871    |
| F         | 206581    |
| G         | 206763    |
| H         | 207178    |
| I         | 207474    |
| K         | 0006871   |

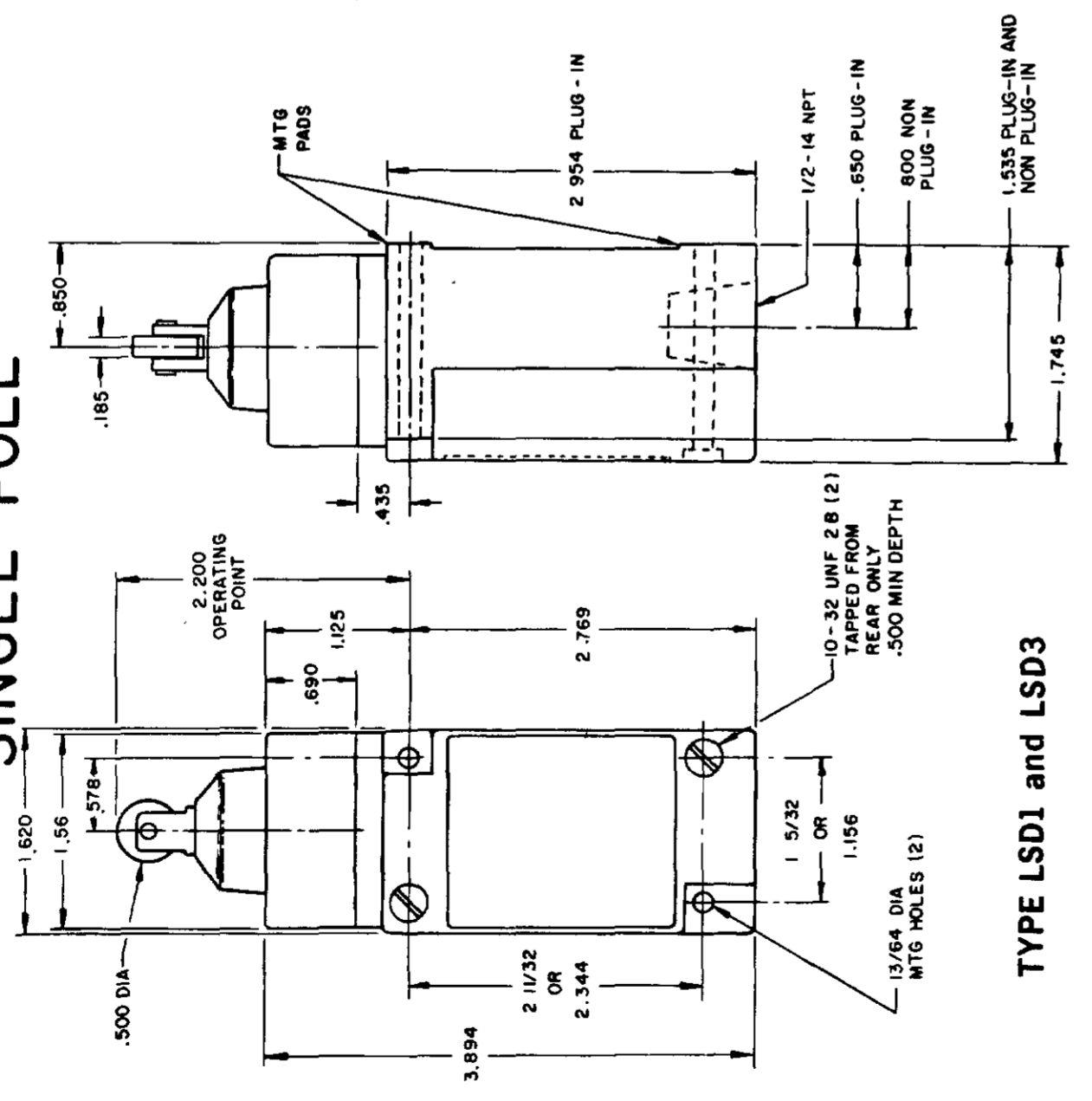
ISSUE 12  
 M LSA-LSW SERIES CHART 1  
 PAGE 4 OF 10  
 PSR 10 JUL 07  
 CHECK 11 AUG 04  
 RELEASE NO CO-78498  
 REPLACES LSA-LSW SERIES

RASTER  
 DRAWN MAM  
 15 JUN 94  
 CHECK JAF  
 11 JUL 94

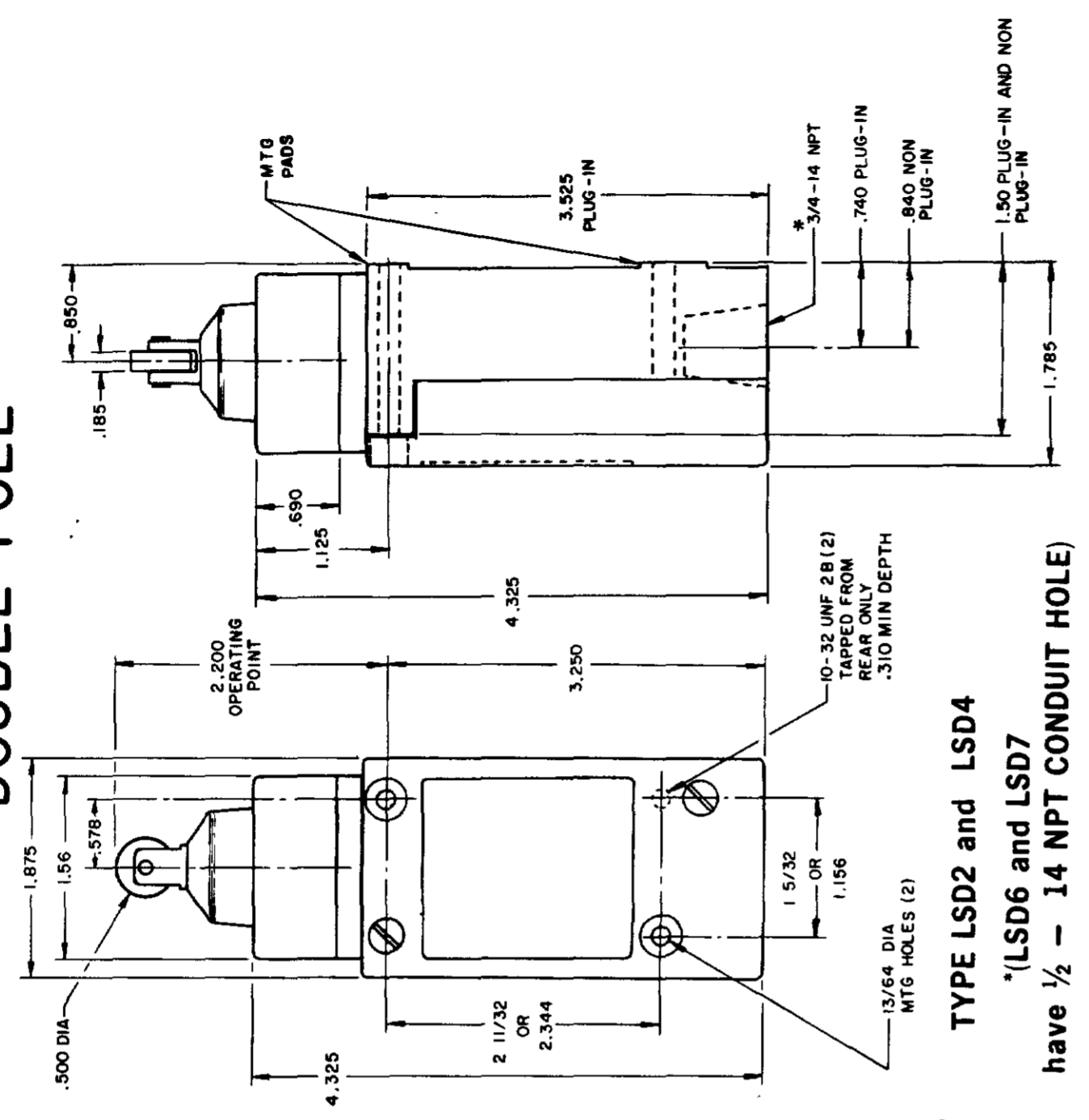
# PLUNGER TYPE TOP

## SINGLE POLE

## DOUBLE POLE

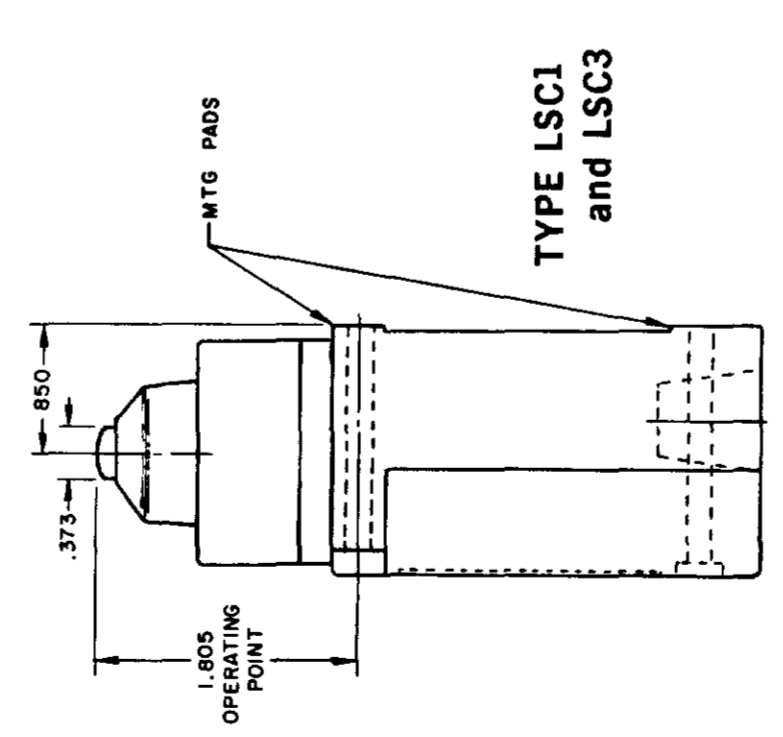


TYPE LSD1 and LSD3

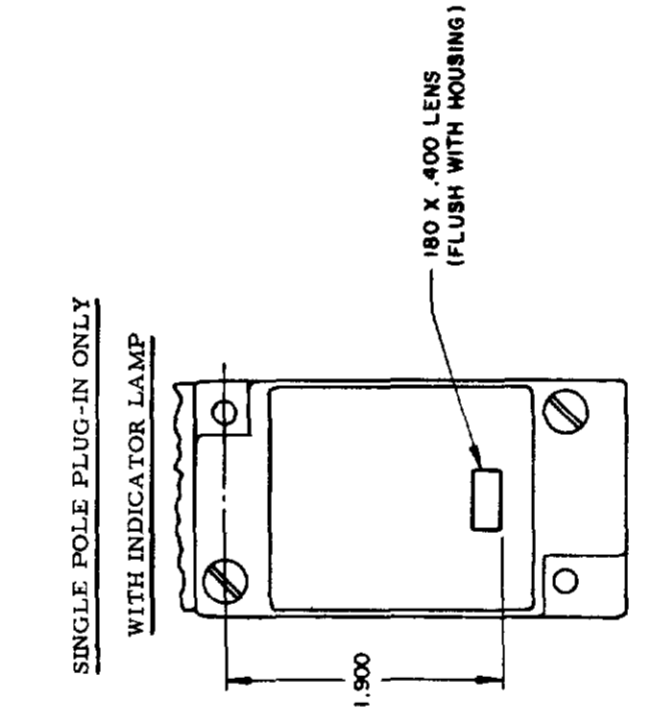


TYPE LSD2 and LSD4

\*(LSD6 and LSD7 have 1/2 - 14 NPT CONDUIT HOLE)

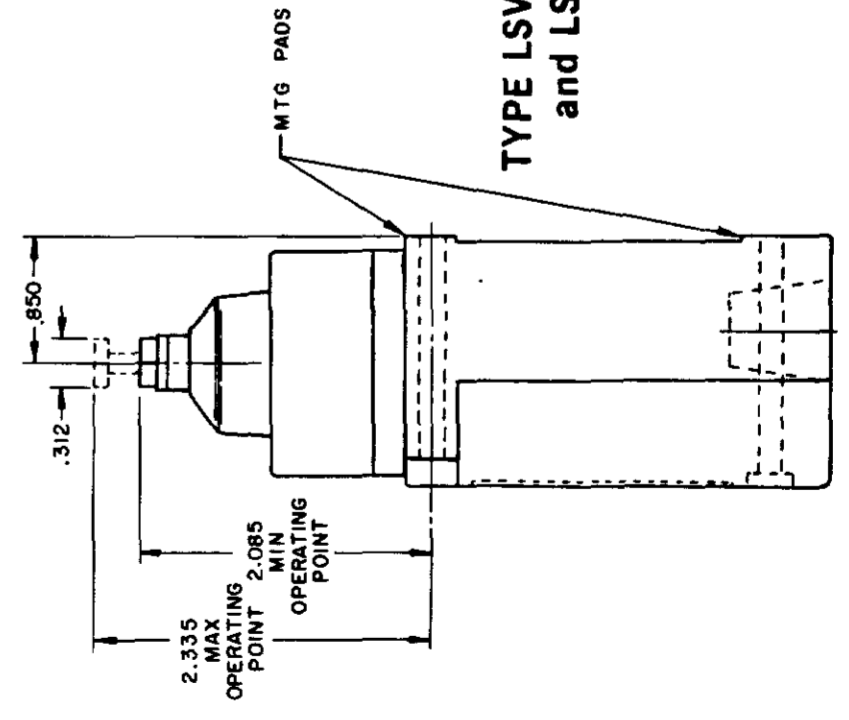


TYPE LSC1 and LSC3

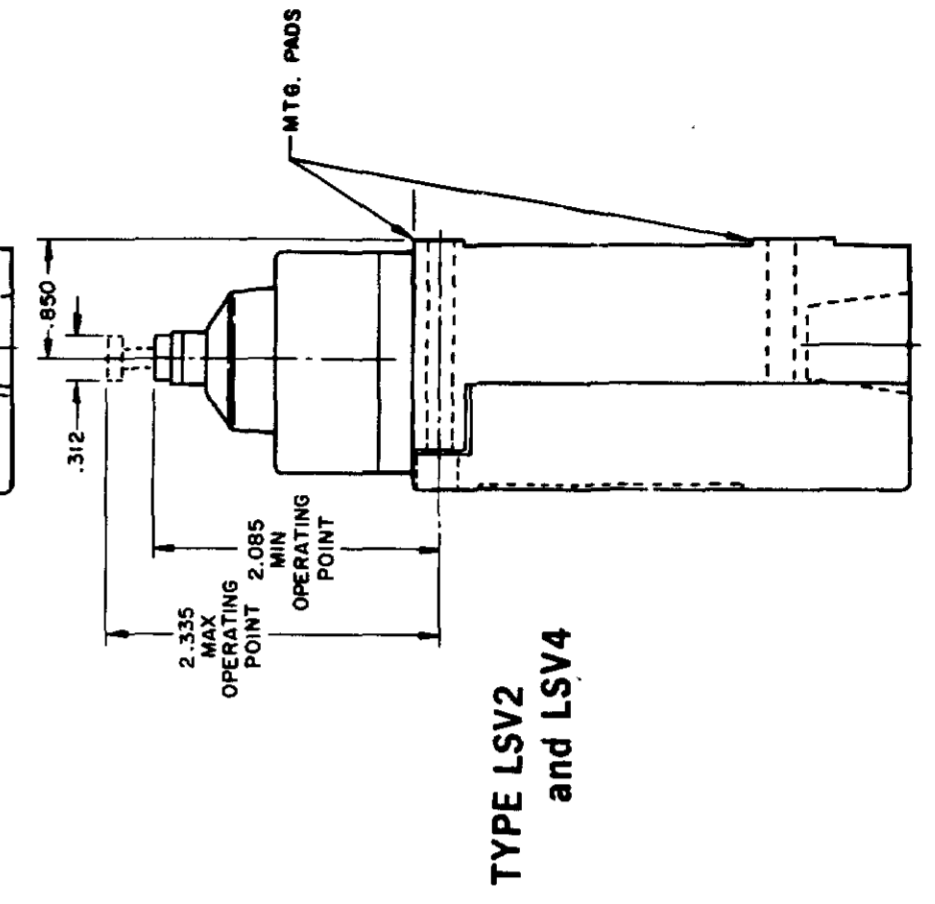


TYPE LSC2 and LSC4

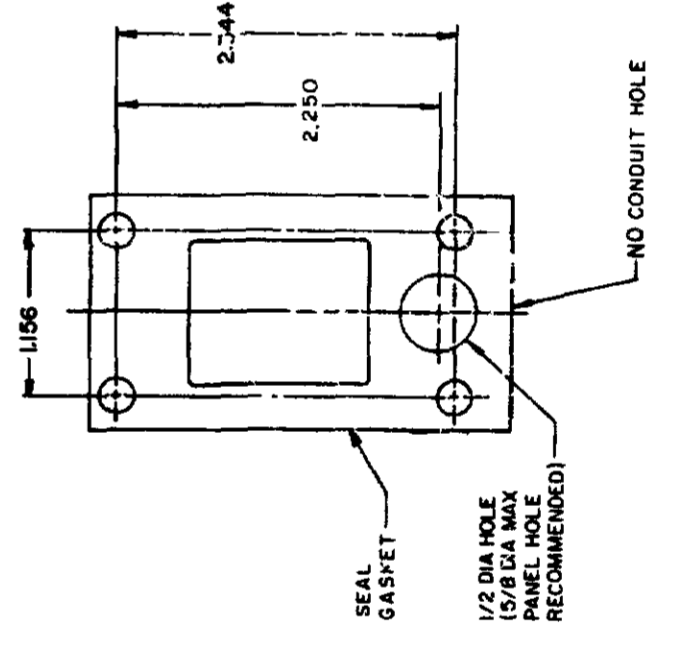
120 LAMP VOLTAGE - TYPE LSC5, LSD5 or LSV5  
 240 LAMP VOLTAGE - TYPE LSC8, LSD8 or LSV8



TYPE LSV1 and LSV3



TYPE LSV2 and LSV4



MANIFOLD MOUNT (PLUG-IN ONLY)  
 SINGLE POLE AND DOUBLE POLE  
 TYPE LSA THROUGH LSW SERIES

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**MICRO SWITCH**  
 a Honeywell Division

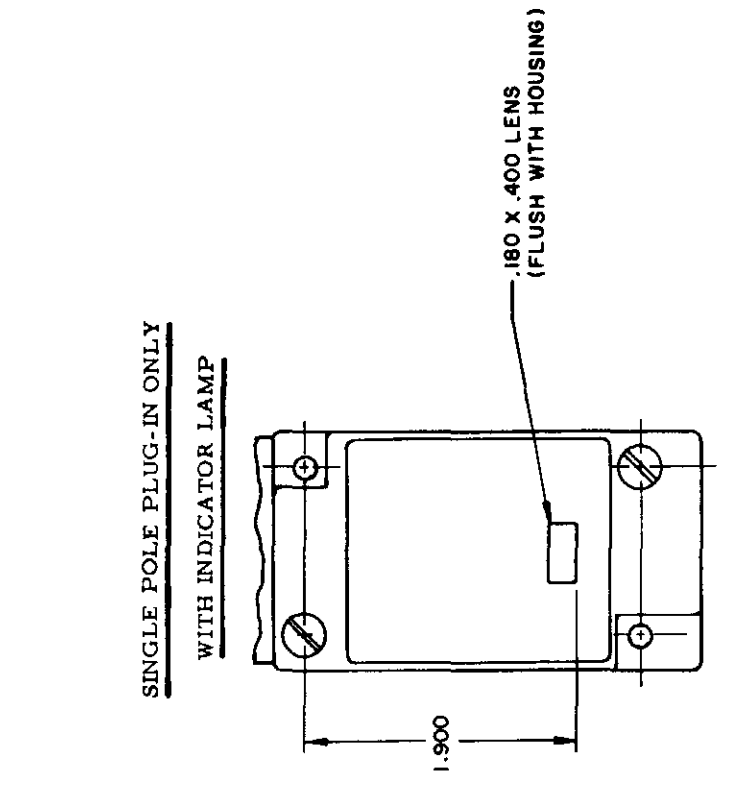
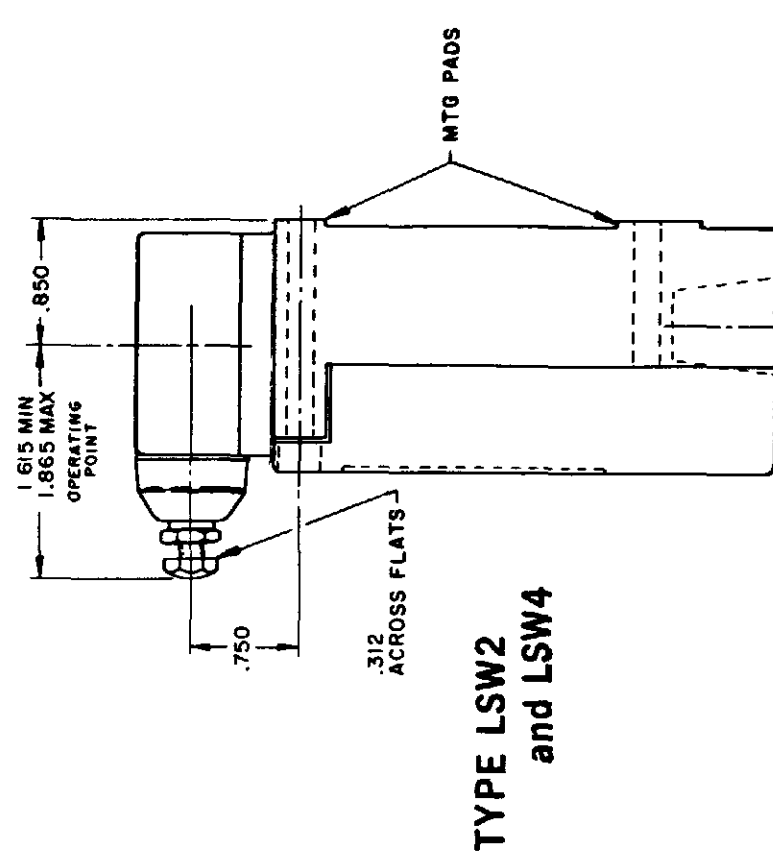
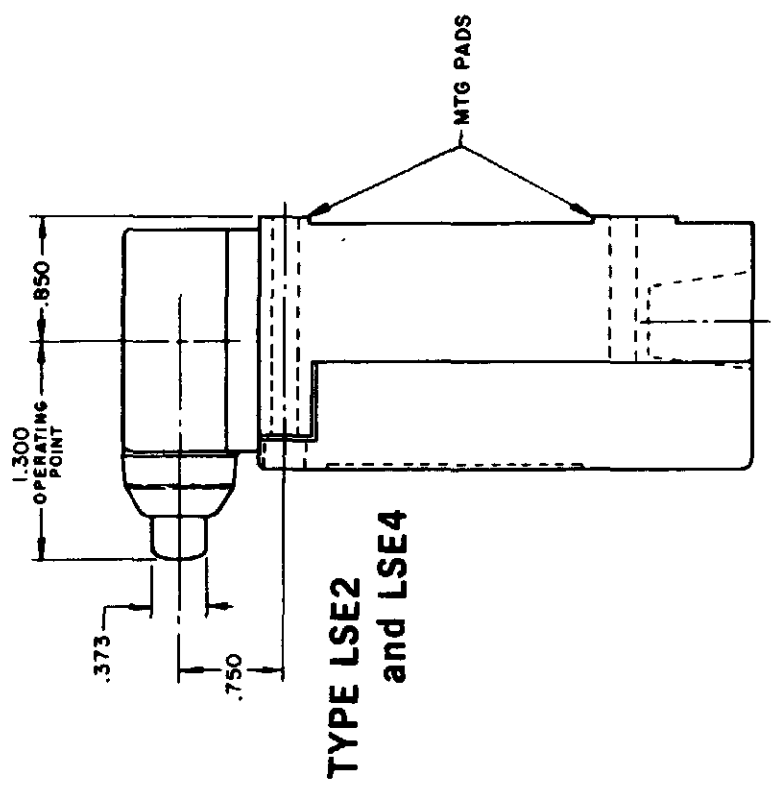
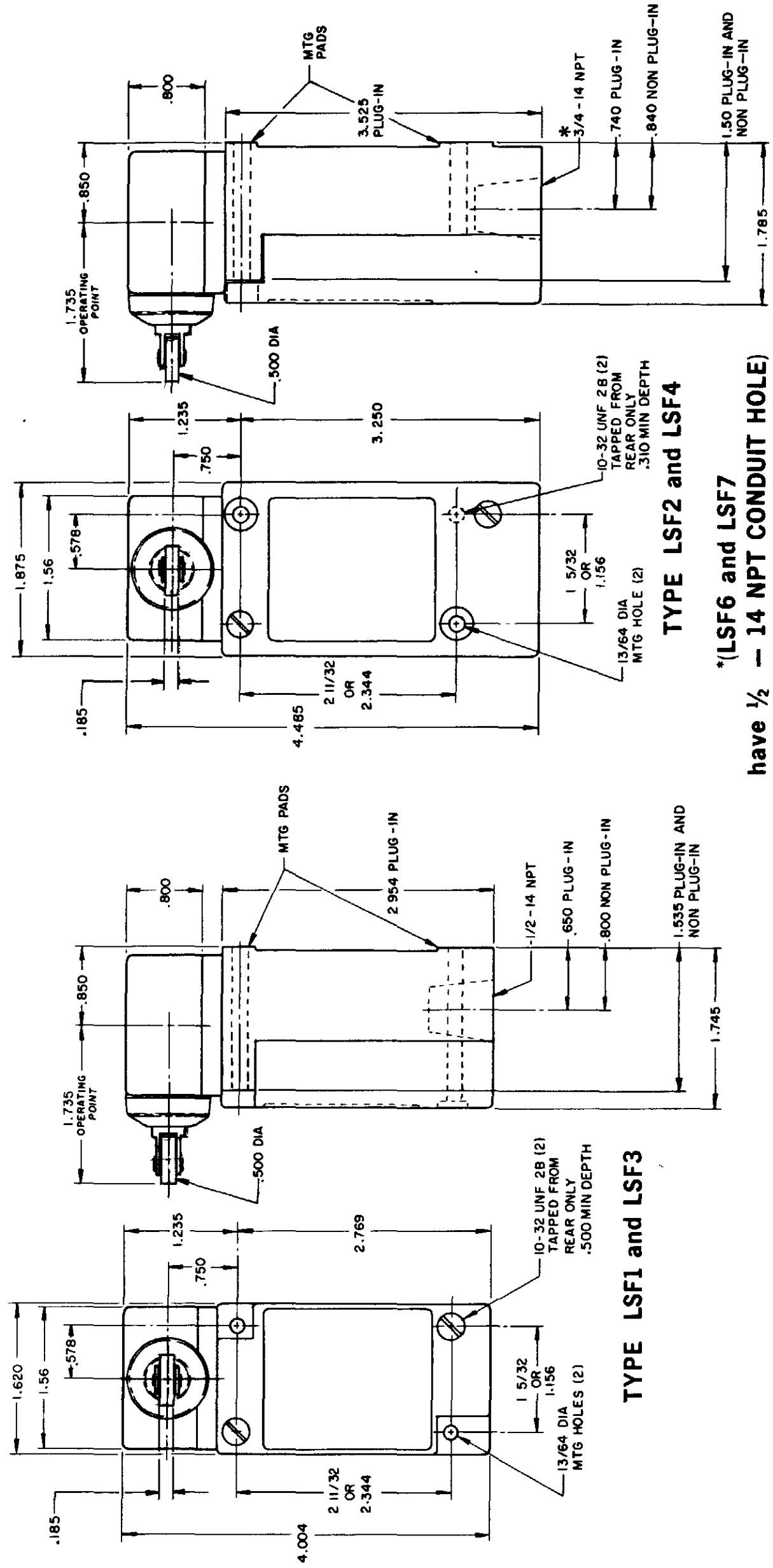
SWITCH - ENCLOSED

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

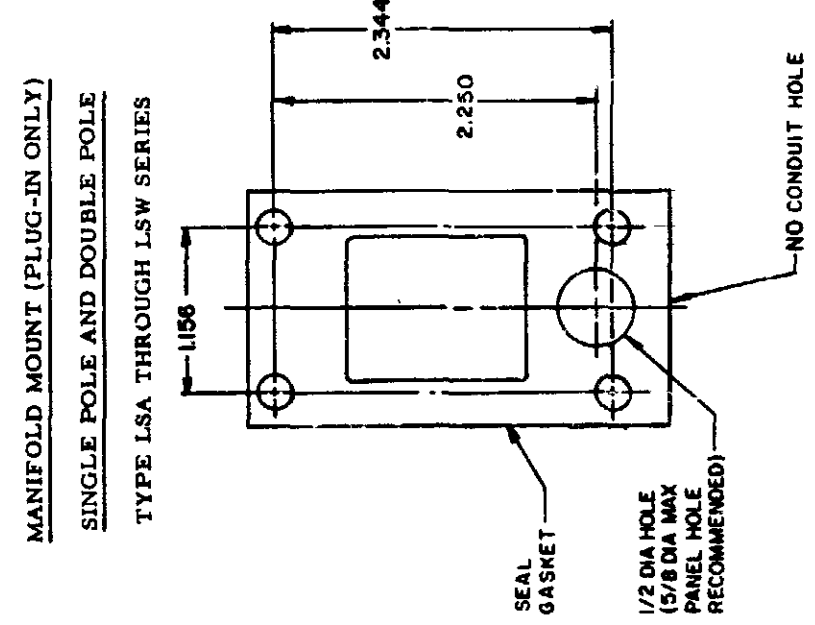
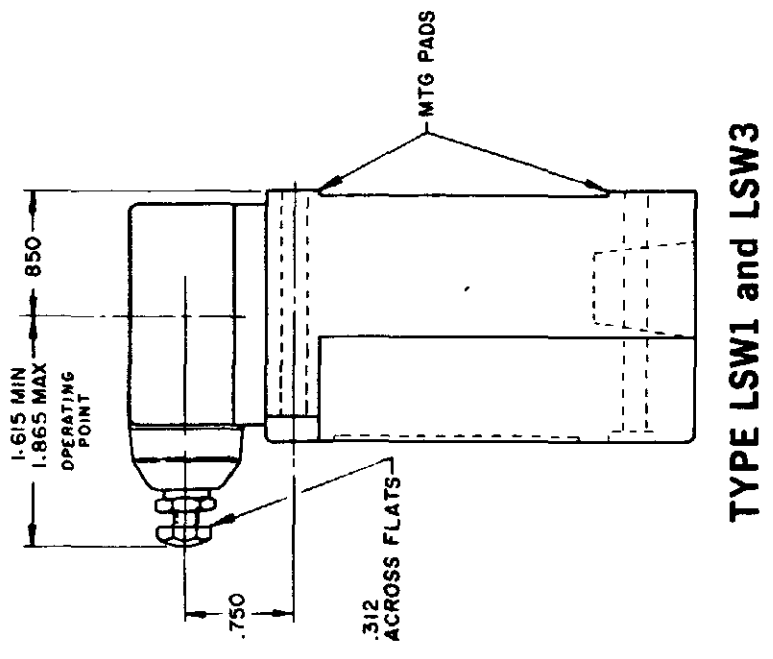
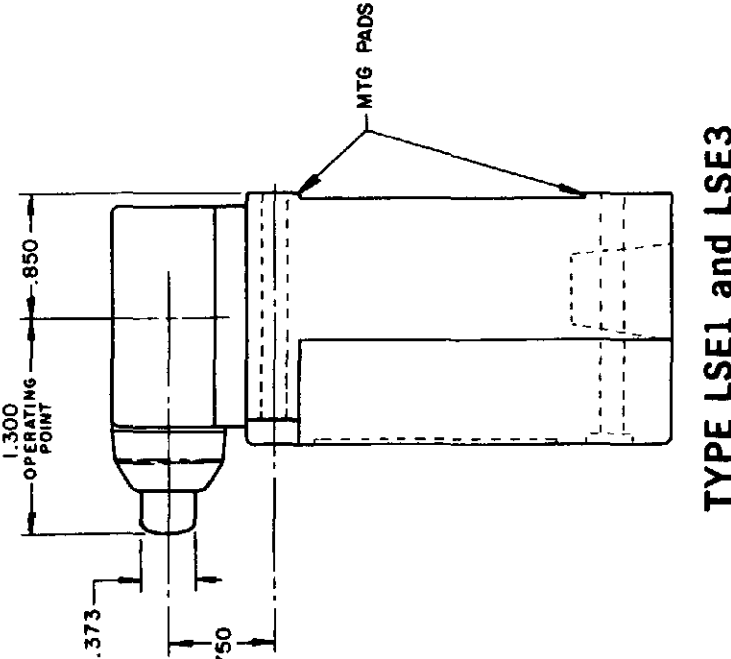
SCALE NONE

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SIDE PLUNGER TYPE DOUBLE POLE



120 LAMP VOLTAGE - TYPE LSF5, LSE5 and LSW5  
 240 LAMP VOLTAGE - TYPE LSF8, LSE8 and LSW8



|        |           |                 |                        |
|--------|-----------|-----------------|------------------------|
| RASTER | 15 JUN 94 | CHECK           | JAF                    |
| DRAWN  | 11 AUG 94 | CHECK           | AK                     |
| MAM    | 11 JUL 94 | CHECK           | AK                     |
| REV    | 11 AUG 04 | CHECK           | AK                     |
| 12     | 10 JUL 07 | RELEASE NO      | CO-78498               |
| 13     | 10 JUL 07 | REPLACES        | LSA-LSW SERIES         |
| 14     | 10 JUL 07 | CATALOG LISTING | LSA-LSW SERIES CHART 1 |
| 15     | 10 JUL 07 | ISSUE           | 12                     |

|           |           |       |           |
|-----------|-----------|-------|-----------|
| REVISIONS | 11 AUG 04 | CHECK | AK        |
| L         | 0031956   | BS    | 10 JUL 07 |
| B         | 201004    | CST   | 10 AUG 00 |
| C         | 201748    | CST   | 17 NOV 00 |
| D         | 202198    | CST   | 26 JAN 01 |
| E         | 204871    | CST   | 14 FEB 02 |
| F         | 206581    | GLH   | 14 OCT 02 |
| G         | 206763    | CST   | 31 OCT 02 |
| H         | 207179    | GLH   | 14 JAN 03 |
| J         | 207474    | LSW   | 18 FEB 03 |
| K         | 0006871   | LSW   | 11 AUG 04 |

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**MICRO SWITCH**  
a Honeywell Division

SWITCH - ENCLOSED

LSA-LSW SERIES CHART 1

CATALOG LISTING

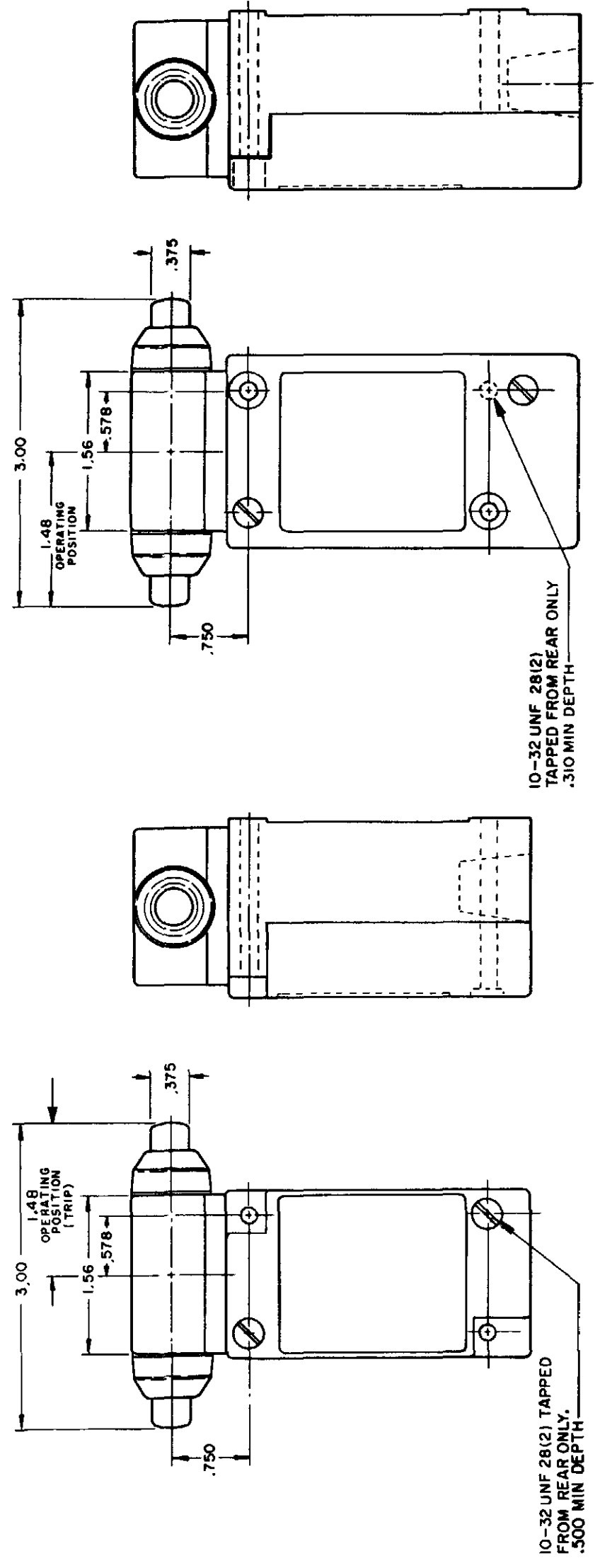
SCALE NONE  
DO NOT SCALE PRINT

PAGE 5 OF 10

ISSUE 12 PSR 10JUL07 RELEASE NO CO-78498 REPLACES LSA-LSW SERIES

REVISIONS  
 L 0031956  
 M 10 JUL 07  
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 C 201748  
 D 202198  
 E 204871  
 F 206581  
 G 206763  
 H 207179  
 J 207474  
 K 0006871

CATALOG LISTING  
**M** LSA-LSW SERIES CHART 1  
 PAGE 6 OF 10  
 CHECK 11AUG04  
 CHECK 11JUL94  
 CHECK 15JUN94



TYPE LSG1 and LSG3  
TYPE LSG2 and LSG4

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

**TOP PLUNGER TYPES**

| CHARACTERISTICS  | LSC PLUNGER     |                           | LSD ROLLER PLUNGER |             | LSV ADJ PLUNGER |          | SEQUENCE BASIC |     |
|--|-----------------|---------------------------|--------------------|-------------|-----------------|----------|----------------|-----|
|  | PRETRAVEL (MAX) | DIFFERENTIAL TRAVEL (MAX) | SINGLE POLE        | DOUBLE POLE | 1ST STEP        | 2ND STEP | LSC            | LSD |
| PRETRAVEL (MAX)  | .070            | .070                      |                    |             | .070            |          |                | LSD |
| DIFFERENTIAL TRAVEL (MAX)                              | .015            | .020                      | SINGLE POLE        | DOUBLE POLE | .015            |          |                | LSD |
| OVERTRAVEL (MIN)                                       | .190            | .190                      |                    |             | .190            |          |                | LSD |
| OPERATING FORCE (MAX)                                  | 4 LBS           | 4 LBS                     |                    |             | 4 LBS           |          |                | LSD |
| OPERATING POINT  | 1.805 ± .030    | 2.200 ± .040              |                    |             | 2.085 MIN       |          |                | LSD |
| FULL OVERTRAVEL FORCE (MAX)                            | 7 LBS           | 7 LBS                     |                    |             | 7 LBS           |          |                | LSD |
| OPERATING POINT GIVEN IN RELATION TO TOP MOUNTING HOLE |                 |                           |                    |             |                 |          |                |     |
| OPERATING POINT GIVEN IN RELATION TO CENTER OF HEAD    |                 |                           |                    |             |                 |          |                |     |
| SEQUENCE BASIC   |                 |                           |                    |             |                 |          |                |     |
| LSC  |                 |                           |                    |             |                 |          |                |     |
| LSD  |                 |                           |                    |             |                 |          |                |     |
| LSV  |                 |                           |                    |             |                 |          |                |     |
| 1ST STEP .070  |                 |                           |                    |             |                 |          |                |     |
| 2ND STEP .016 MIN ADD'L                                |                 |                           |                    |             |                 |          |                |     |
| .015 EACH STEP   |                 |                           |                    |             |                 |          |                |     |
| .170   |                 |                           |                    |             |                 |          |                |     |
| 4 LBS  |                 |                           |                    |             |                 |          |                |     |
| 1ST STEP   |                 |                           |                    |             |                 |          |                |     |
| 1.815±.030   |                 |                           |                    |             |                 |          |                |     |
| 2.210±.040   |                 |                           |                    |             |                 |          |                |     |
| 2.095 MIN / 2.345 MAX                                  |                 |                           |                    |             |                 |          |                |     |
| 7 LBS  |                 |                           |                    |             |                 |          |                |     |

**SIDE PLUNGER TYPES**

| CHARACTERISTICS                                     | LSE PLUNGER     |                           | LSF ROLLER PLUNGER |             | LSW ADJ PLUNGER |          | SEQUENCE BASIC |     |
|---|-----------------|---------------------------|--------------------|-------------|-----------------|----------|----------------|-----|
|   | PRETRAVEL (MAX) | DIFFERENTIAL TRAVEL (MAX) | SINGLE POLE        | DOUBLE POLE | 1ST STEP        | 2ND STEP | LSE            | LSF |
| PRETRAVEL (MAX)                                     | .100            | .100                      |                    |             | .170            |          |                | LSE |
| DIFFERENTIAL TRAVEL (MAX)                           | .045            | .045                      | SINGLE POLE        | DOUBLE POLE | .090            |          |                | LSE |
| OVERTRAVEL (MIN)                                    | .190            | .190                      |                    |             | .080            |          |                | LSE |
| OPERATING FORCE (MAX)                               | 6 LBS           | 6 LBS                     |                    |             | 10 LBS          |          |                | LSE |
| OPERATING POINT                                     | 1.300 ± .030    | 1.735 ± .040              |                    |             | 1.480 ± .030    |          |                | LSE |
| FULL OVERTRAVEL FORCE (MAX)                         | 6 LBS           | 6 LBS                     |                    |             | 10 LBS          |          |                | LSE |
| OPERATING POINT GIVEN IN RELATION TO CENTER OF HEAD |                 |                           |                    |             |                 |          |                |     |
| SEQUENCE BASIC                                      |                 |                           |                    |             |                 |          |                |     |
| LSE   |                 |                           |                    |             |                 |          |                |     |
| LSF   |                 |                           |                    |             |                 |          |                |     |
| LSW   |                 |                           |                    |             |                 |          |                |     |
| 1ST STEP .100                                       |                 |                           |                    |             |                 |          |                |     |
| 2ND STEP .020 MIN ADD'L                             |                 |                           |                    |             |                 |          |                |     |
| .025 EACH STEP                                      |                 |                           |                    |             |                 |          |                |     |
| .170  |                 |                           |                    |             |                 |          |                |     |
| 6 LBS   |                 |                           |                    |             |                 |          |                |     |
| 1ST STEP  |                 |                           |                    |             |                 |          |                |     |
| 1.310±.030  |                 |                           |                    |             |                 |          |                |     |
| 1.745±.040  |                 |                           |                    |             |                 |          |                |     |
| 1.625 MIN / 1.875 MAX                               |                 |                           |                    |             |                 |          |                |     |
| 6 LBS   |                 |                           |                    |             |                 |          |                |     |

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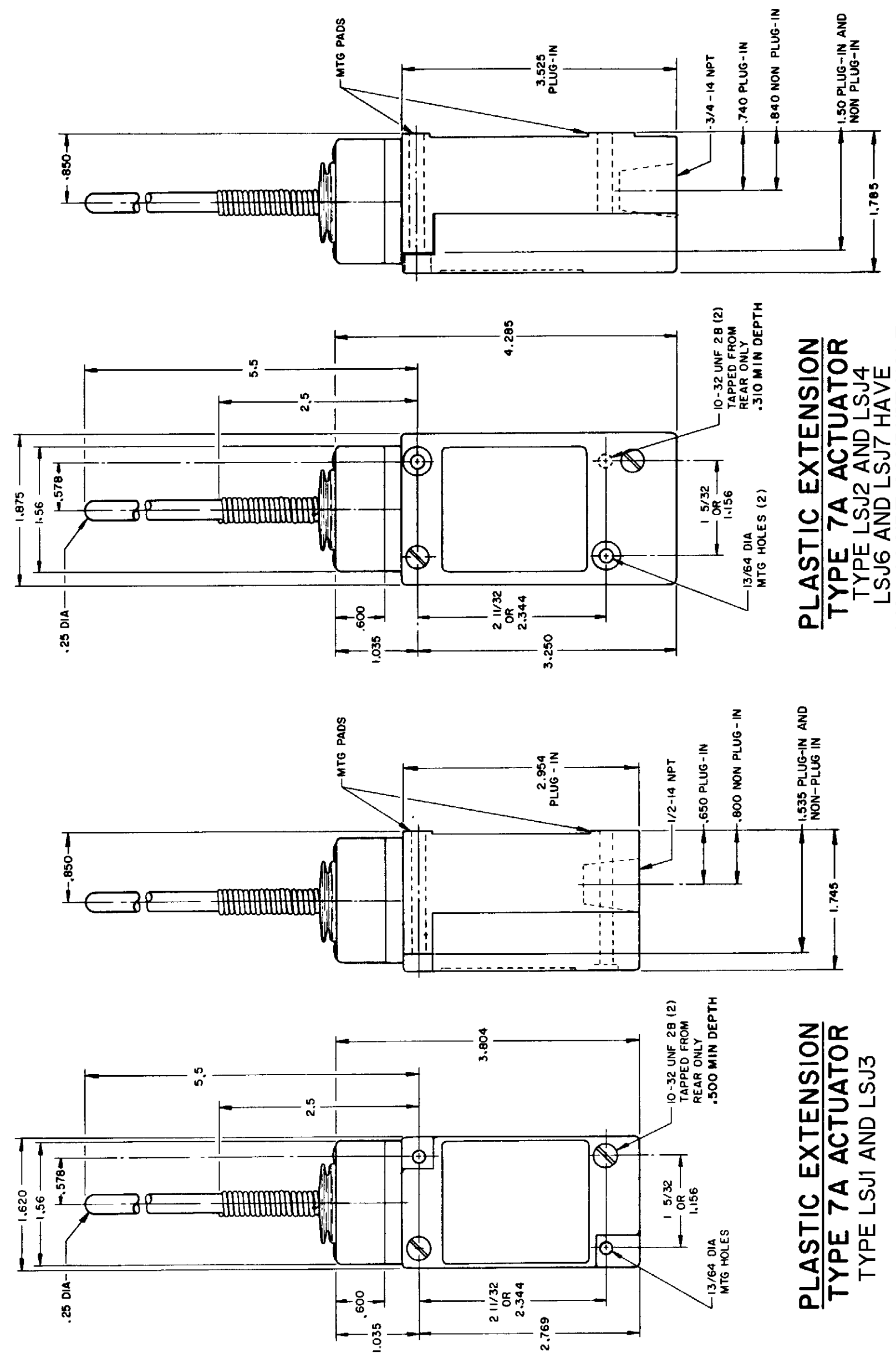
SWITCH - ENCLOSED

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

SCALE NONE  
DO NOT SCALE PRINT  
DIMENSIONS ARE IN INCHES  
TOLERANCES:  
ONE PLACE (.0)  
TWO PLACE (.00)  
THREE PLACE (.000)  
ANGLES  
WEIGHT

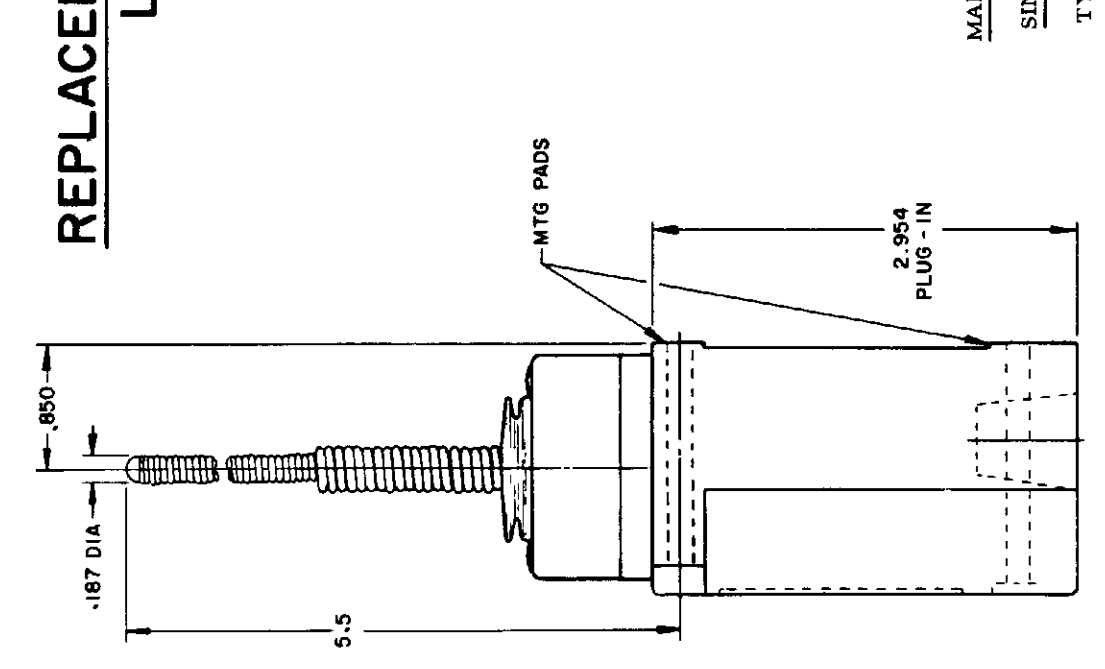


**WOBBLE STICK**  
**DOUBLE POLE**  
**SINGLE POLE**

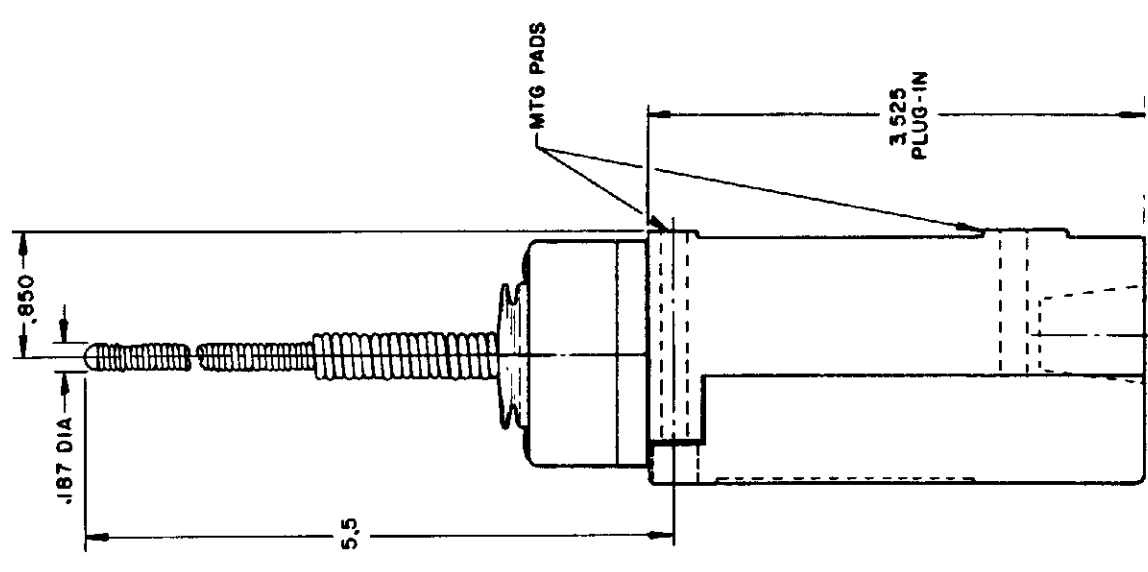


**PLASTIC EXTENSION**  
**TYPE 7A ACTUATOR**  
 TYPE LSJ2 AND LSJ4  
 LSJ6 AND LSJ7 HAVE  
 1/2 - 14 NPT CONDUIT HOLE

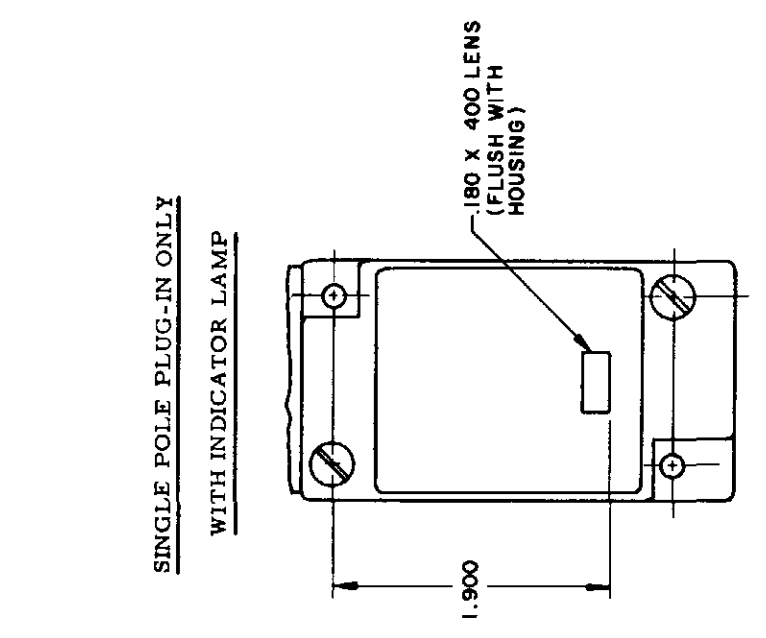
**PLASTIC EXTENSION**  
**TYPE 7A ACTUATOR**  
 TYPE LSJ1 AND LSJ3



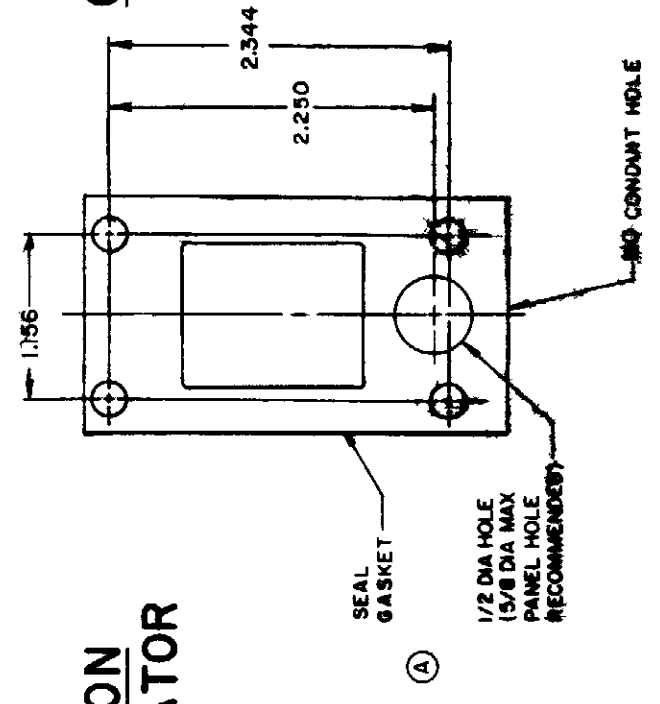
**REPLACEMENT ACTUATOR**  
**LSZ-4009**



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



**REPLACEMENT ACTUATOR**  
**LSZ-4011**  
 120 LAMP VOLTAGE TYPE LSJ5  
 240 LAMP VOLTAGE TYPE LSJ8  
 24 LED VOLTAGE TYPE LSJ9



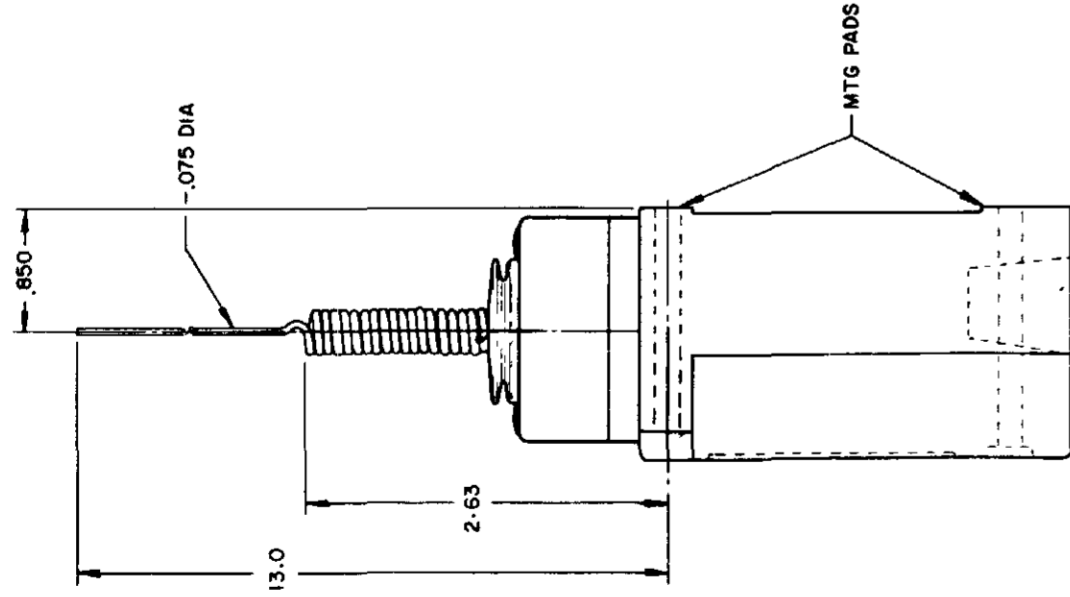
MANIFOLD MOUNT (PLUG-IN ONLY)  
 SINGLE POLE AND DOUBLE POLE  
 TYPE LSA THROUGH LSW SERIES

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

**REPLACEMENT ACTUATOR**  
**LSZ-4011**

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 FED MFG CODE 91929  
 SWITCH - ENCLOSED  
 CATALOG LISTING  
**LSA-LSW SERIES**  
**CHART 1**

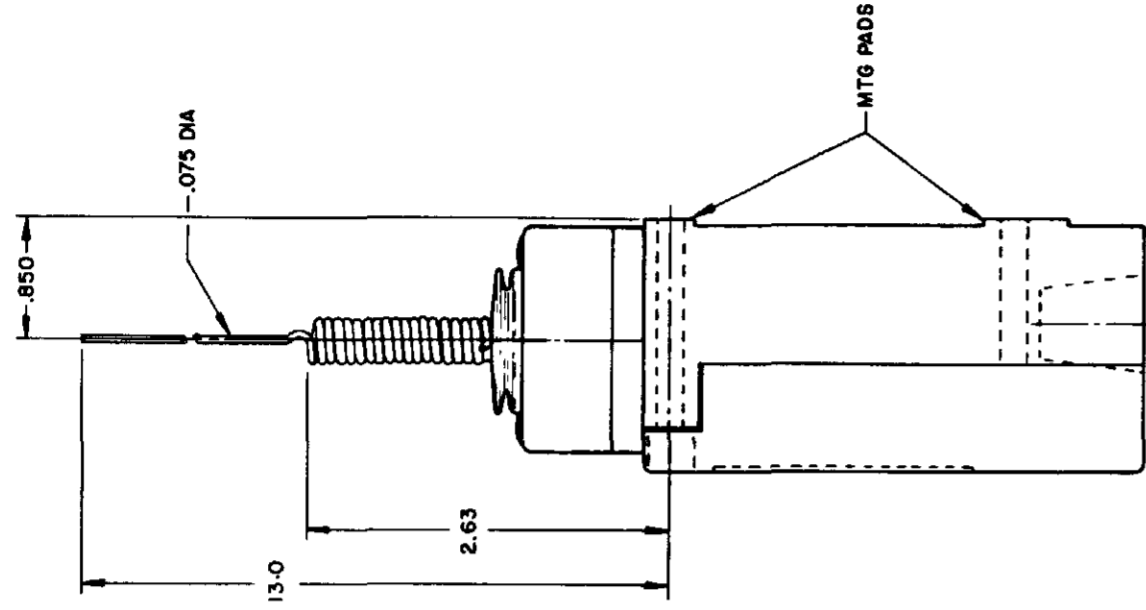
| REVISIONS |           |
|-----------|-----------|
| L         | 0031956   |
| BS        | 10 JUL 07 |
| B         | 201004    |
| C         | 10 AUG 00 |
| C         | 201748    |
| C         | 17 NOV 00 |
| D         | 202198    |
| E         | 204871    |
| F         | 206581    |
| G         | 206763    |
| H         | 207179    |
| J         | 207474    |
| K         | 0006871   |



**WIRE EXTENSION TYPE 7M ACTUATOR**

TYPE LSJ1 and LSJ3

REPLACEMENT ACTUATOR - LSZ 4010

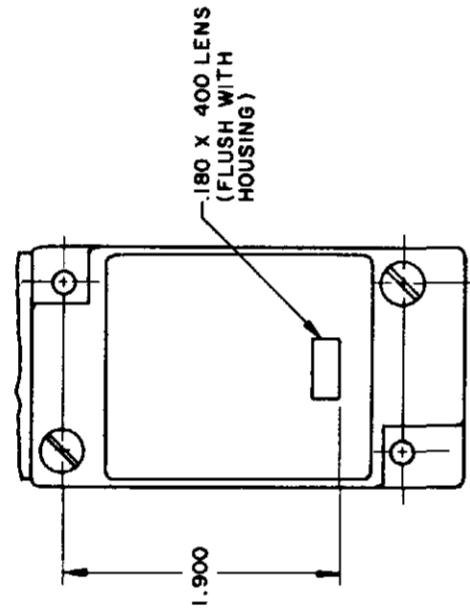


**WIRE EXTENSION TYPE 7M ACTUATOR**

TYPE LSJ2 and LSJ4

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

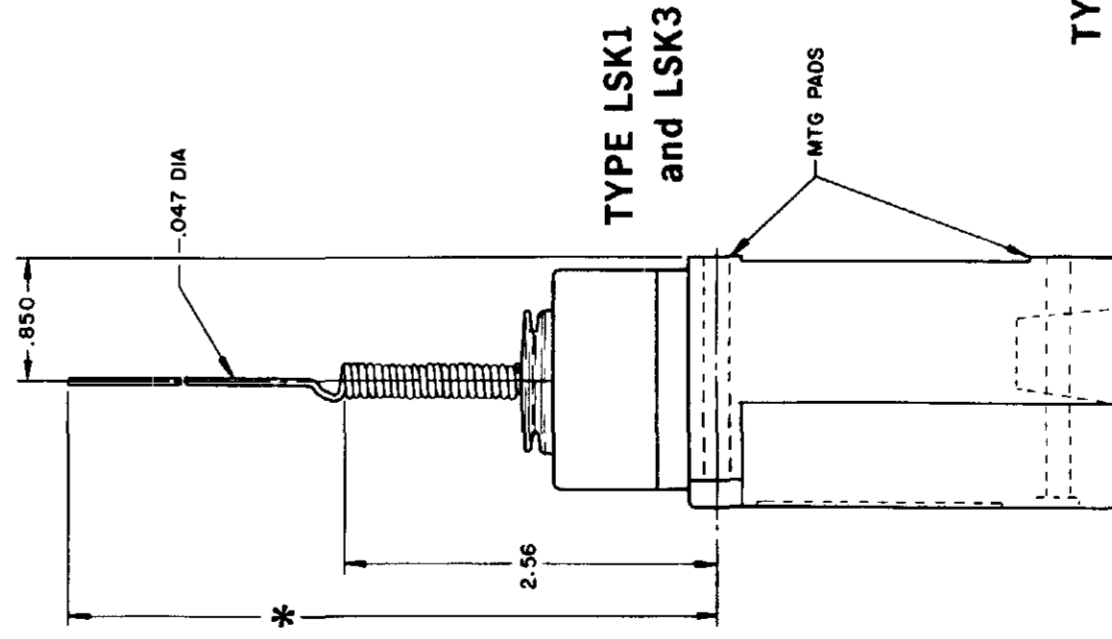
SINGLE POLE PLUG-IN ONLY  
WITH INDICATOR LAMP



120 LAMP VOLTAGE TYPE LSJ5  
240 LAMP VOLTAGE TYPE LSJ8

## CAT WHISKER

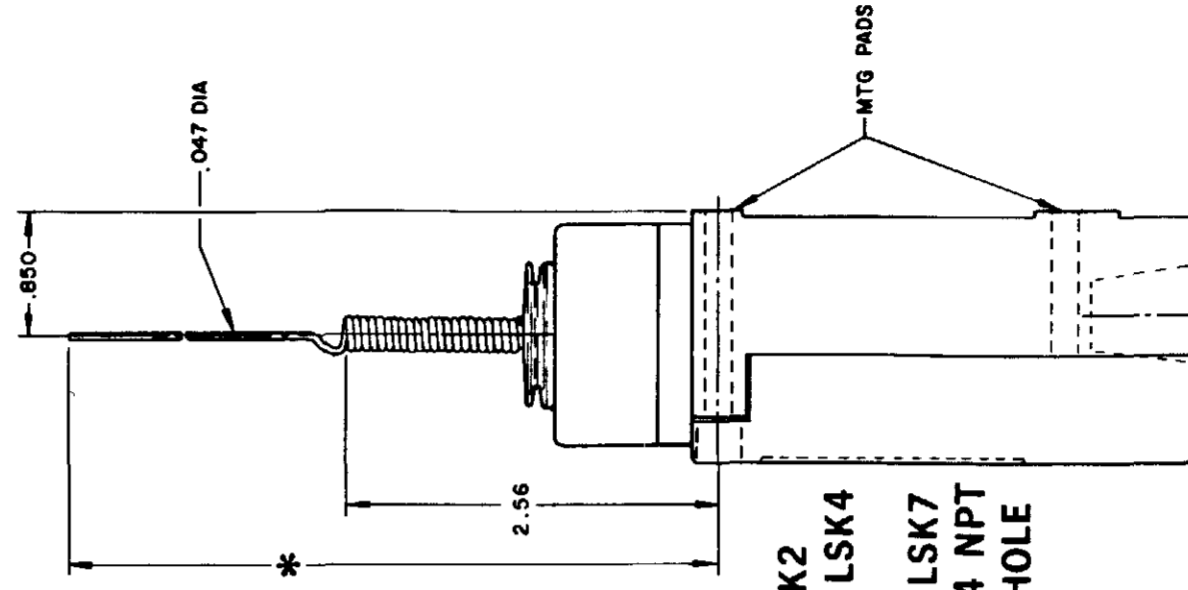
SINGLE POLE



**\* 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

DOUBLE POLE



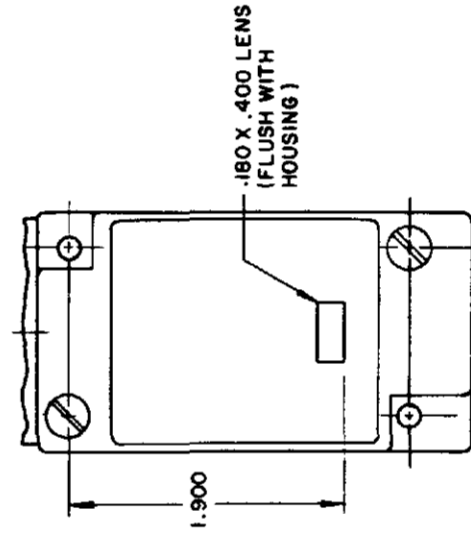
TYPE LSK2  
and LSK4

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

**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.

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

SCALE NONE  
DO NOT SCALE PRINT

| PRETRAVEL (APPROX) IN. RADIUS | CAT. WHISKER |            | WOBBLE STICK |       |
|-------------------------------|--------------|------------|--------------|-------|
|                               | 5/16" WIRE   | 7/16" WIRE | ROD          | CABLE |
| 2                             | 2            | 4.5        | 1.0          | 1.5   |
| OPERATING FORCE-OZ (MAX)      | 7.0          | 5.0        | 3.0          | 10.0  |
|                               |              |            | 7.0          | 5.0   |

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SWITCH - ENCLOSED

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

FED MFG CODE 91929

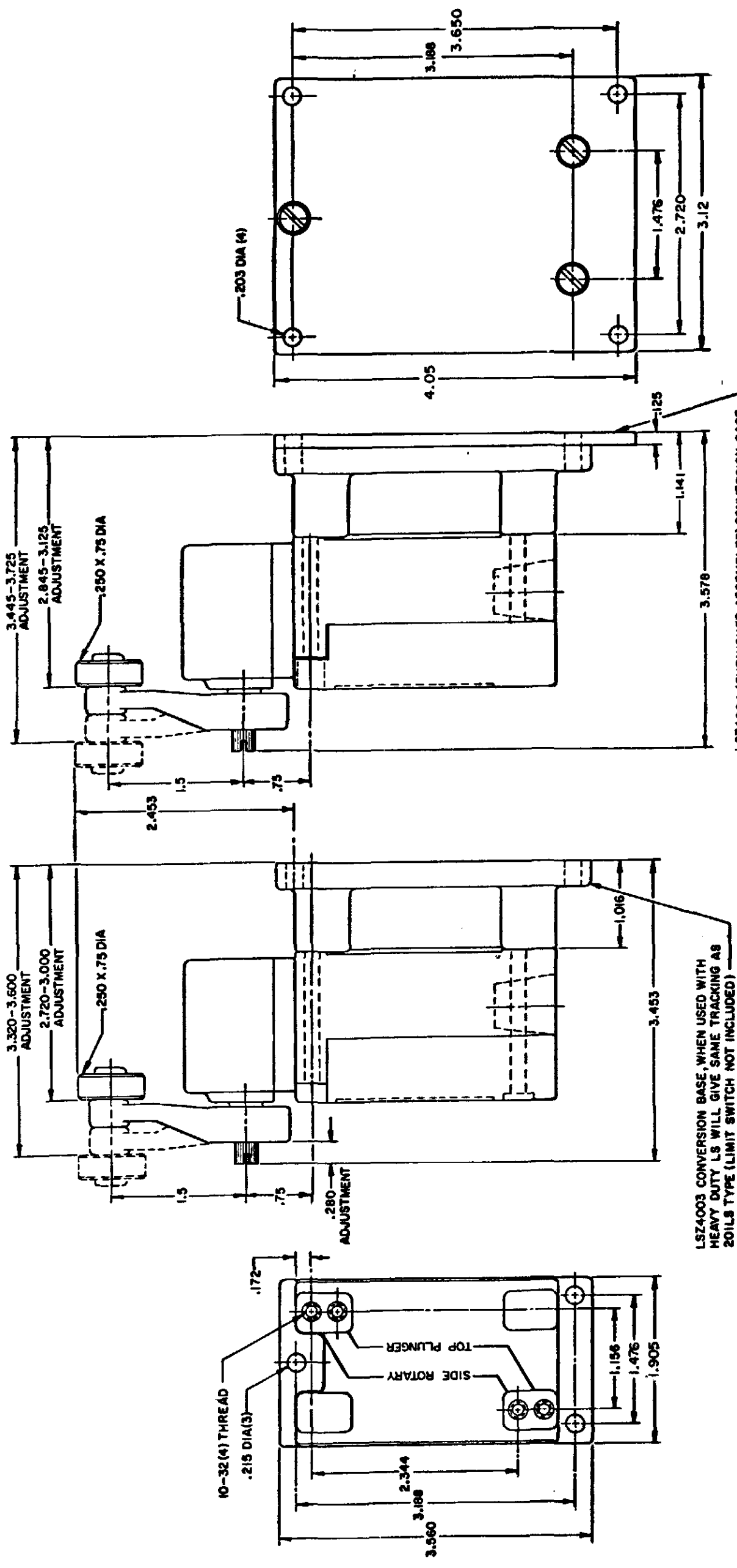


| ISSUE           | 12  | PSR  | 10JUL07 | RELEASE NO  | CO-78498  | REPLACES | LSA-LSW SERIES |     |      |    |      |             |   |         |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |        |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |         |    |         |  |
|-----------------|---|------|---------|-------------|-----------|----------|----------------|-----|------|----|------|-------------|---|---------|----|---------|--|---|--------|----|---------|--|---|--------|----|---------|--|---|--------|----|---------|--|---|--------|----|---------|--|---|--------|----|--------|--|---|--------|----|---------|--|---|--------|----|---------|--|---|--------|----|---------|--|---|---------|----|---------|--|
| CATALOG LISTING | LSA-LSW SERIES CHART 1  |      |         |             |           |          |                |     |      |    |      |             |   |         |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |        |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |         |    |         |  |
| PAGE            | 9 OF 10   |      |         |             |           |          |                |     |      |    |      |             |   |         |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |        |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |         |    |         |  |
| REVISIONS       | <table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>CHKD</th> <th>DESCRIPTION</th> </tr> <tr> <td>L</td> <td>0031956</td> <td>BS</td> <td>10JUL07</td> <td></td> </tr> <tr> <td>B</td> <td>201004</td> <td>BS</td> <td>10AUG00</td> <td></td> </tr> <tr> <td>C</td> <td>201748</td> <td>BS</td> <td>17NOV00</td> <td></td> </tr> <tr> <td>D</td> <td>202198</td> <td>BS</td> <td>23JAN01</td> <td></td> </tr> <tr> <td>E</td> <td>204871</td> <td>BS</td> <td>14OCT02</td> <td></td> </tr> <tr> <td>F</td> <td>206581</td> <td>BS</td> <td>206763</td> <td></td> </tr> <tr> <td>G</td> <td>206763</td> <td>BS</td> <td>31OCT02</td> <td></td> </tr> <tr> <td>H</td> <td>207179</td> <td>BS</td> <td>14JAN03</td> <td></td> </tr> <tr> <td>J</td> <td>207474</td> <td>BS</td> <td>18FEB03</td> <td></td> </tr> <tr> <td>K</td> <td>0006871</td> <td>BS</td> <td>11AUG04</td> <td></td> </tr> </table> |      |         |             |           |          |                | REV | DATE | BY | CHKD | DESCRIPTION | L | 0031956 | BS | 10JUL07 |  | B | 201004 | BS | 10AUG00 |  | C | 201748 | BS | 17NOV00 |  | D | 202198 | BS | 23JAN01 |  | E | 204871 | BS | 14OCT02 |  | F | 206581 | BS | 206763 |  | G | 206763 | BS | 31OCT02 |  | H | 207179 | BS | 14JAN03 |  | J | 207474 | BS | 18FEB03 |  | K | 0006871 | BS | 11AUG04 |  |
| REV             | DATE  | BY   | CHKD    | DESCRIPTION |           |          |                |     |      |    |      |             |   |         |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |        |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |         |    |         |  |
| L               | 0031956   | BS   | 10JUL07 |             |           |          |                |     |      |    |      |             |   |         |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |        |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |         |    |         |  |
| B               | 201004  | BS   | 10AUG00 |             |           |          |                |     |      |    |      |             |   |         |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |        |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |         |    |         |  |
| C               | 201748  | BS   | 17NOV00 |             |           |          |                |     |      |    |      |             |   |         |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |        |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |         |    |         |  |
| D               | 202198  | BS   | 23JAN01 |             |           |          |                |     |      |    |      |             |   |         |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |        |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |         |    |         |  |
| E               | 204871  | BS   | 14OCT02 |             |           |          |                |     |      |    |      |             |   |         |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |        |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |         |    |         |  |
| F               | 206581  | BS   | 206763  |             |           |          |                |     |      |    |      |             |   |         |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |        |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |         |    |         |  |
| G               | 206763  | BS   | 31OCT02 |             |           |          |                |     |      |    |      |             |   |         |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |        |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |         |    |         |  |
| H               | 207179  | BS   | 14JAN03 |             |           |          |                |     |      |    |      |             |   |         |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |        |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |         |    |         |  |
| J               | 207474  | BS   | 18FEB03 |             |           |          |                |     |      |    |      |             |   |         |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |        |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |         |    |         |  |
| K               | 0006871   | BS   | 11AUG04 |             |           |          |                |     |      |    |      |             |   |         |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |        |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |         |    |         |  |
| DATE            | 15 JUN 94   | CHKD | JAF     | DATE        | 15 JUN 94 | CHKD     | JAF            |     |      |    |      |             |   |         |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |        |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |         |    |         |  |
| DRAWN           | RASTER  |      |         |             |           |          |                |     |      |    |      |             |   |         |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |        |    |        |  |   |        |    |         |  |   |        |    |         |  |   |        |    |         |  |   |         |    |         |  |

# CONVERSION BASES

**SINGLE POLE (SIDE ROTARY) LSZ 4003**

**DOUBLE POLE (SIDE ROTARY) LSZ 4004**

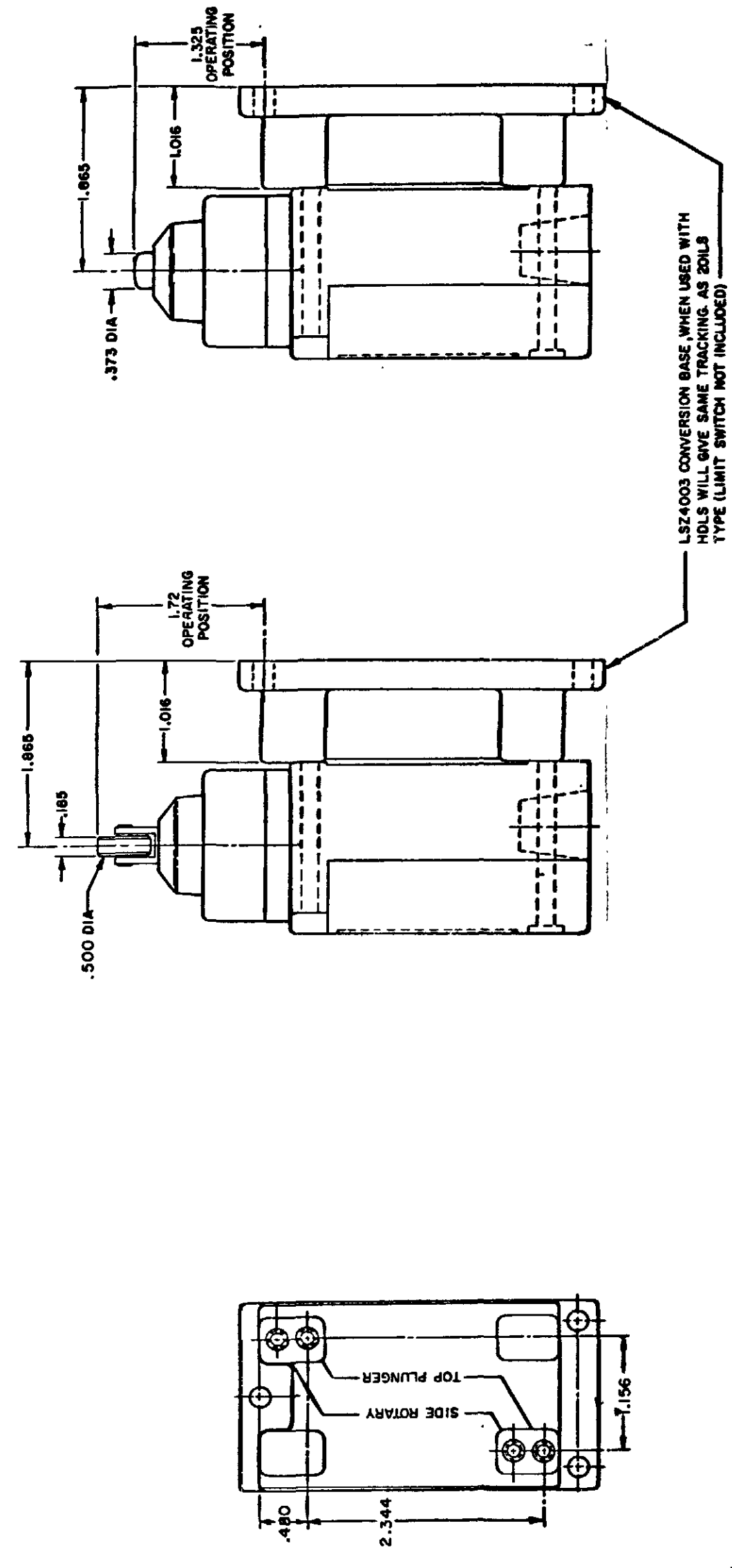


LSZ4004 (FURNISHED ASSEMBLED) CONVERSION BASE, WHEN USED WITH HOLDS WILL GIVE SAME TRACKING AS 301LS TYPE (LIMIT SWITCH NOT INCLUDED)

LSZ4003 CONVERSION BASE WHEN USED WITH HEAVY DUTY LS WILL GIVE SAME TRACKING AS 201LS TYPE (LIMIT SWITCH NOT INCLUDED)

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

# SINGLE POLE TOP PLUNGER LSZ 4003



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

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**MICRO SWITCH**  
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SWITCH - ENCLOSED

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

SCALE FULL  
DO NOT SCALE PRINT

PAGE 9 OF 10

| HEAD TYPE | CELLULUBE                                     | DETERGENT | 5 STAR | ASTM #1 | ASTM #2 | ASTM #3 | ASTM #4 | HOUGHTON SAFE 271 | HOUGHTON SAFE 820 | HOUGHTON SAFE 1010, 1055 | MINERAL OIL | PETR. OIL CRUDE | SILICON GR & OIL | SUNSAFE | BEER | STODDARD SOLV. | CHLORINATED SOLVENTS | CITRIC ACID | D-ESTER SYN. LUBRICANTS | OZONE | HYDRAUL | PROGUARD | PETRO. BASE HYDRAULIC OIL | LARD OIL | SILICATE ESTERS |
|-----------|---|-----------|--------|---------|---------|---------|---------|-------------------|-------------------|--------------------------|-------------|-----------------|------------------|---------|------|----------------|----------------------|-------------|-------------------------|-------|---------|----------|---------------------------|----------|-----------------|
| LSA       | 4   | 1         | 1      | 1       | 1       | 2       | 1       | 4                 | 1                 | 1                        | 1           | 1               | 1                | 1       | 4    | 1              | 2                    | 4           | 4                       | 4     | 4       | 1        | 1                         | 2        |                 |
| LSB       | 4   | 1         | 1      | 1       | 1       | 2       | 1       | 4                 | 1                 | 1                        | 1           | 1               | 1                | 1       | 4    | 1              | 2                    | 4           | 4                       | 4     | 4       | 1        | 1                         | 2        |                 |
| LSC       | 4   | 2         | 2      | 1       | 2       | 4       | 4       | 2                 | 4                 | 2                        | 2           | 1               | 2                | 1       | 2    | 4              | 1                    | 4           | 3                       | 4     | 4       | 2        | 2                         | 2        |                 |
| LSD       | 4   | 2         | 2      | 1       | 2       | 4       | 4       | 2                 | 4                 | 2                        | 2           | 1               | 2                | 1       | 2    | 4              | 1                    | 4           | 3                       | 4     | 4       | 2        | 2                         | 2        |                 |
| LSE       | 4   | 2         | 2      | 1       | 2       | 4       | 4       | 2                 | 4                 | 2                        | 2           | 1               | 2                | 1       | 2    | 4              | 1                    | 4           | 3                       | 4     | 4       | 2        | 2                         | 2        |                 |
| LSF       | 4   | 2         | 2      | 1       | 2       | 4       | 4       | 2                 | 4                 | 2                        | 2           | 1               | 2                | 1       | 2    | 4              | 1                    | 4           | 2                       | 4     | 4       | 2        | 2                         | 2        |                 |
| LSG       | 4   | 2         | 2      | 1       | 2       | 4       | 4       | 2                 | 4                 | 2                        | 2           | 1               | 2                | 1       | 2    | 4              | 1                    | 4           | 3                       | 4     | 4       | 2        | 2                         | 2        |                 |
| LSH       | 4   | 1         | 1      | 1       | 1       | 2       | 1       | 4                 | 1                 | 1                        | 1           | 1               | 1                | 1       | 4    | 1              | 2                    | 4           | 4                       | 4     | 4       | 1        | 1                         | 2        |                 |
| LSJ       | 4   | 2         | 2      | 1       | 2       | 4       | 4       | 2                 | 4                 | 2                        | 2           | 1               | 2                | 1       | 2    | 4              | 1                    | 4           | 3                       | 4     | 4       | 2        | 2                         | 2        |                 |
| LSK       | 4   | 2         | 2      | 1       | 2       | 4       | 4       | 2                 | 4                 | 2                        | 2           | 1               | 2                | 1       | 2    | 4              | 1                    | 4           | 3                       | 4     | 4       | 2        | 2                         | 2        |                 |
| LSL       | 4   | 1         | 1      | 1       | 1       | 2       | 1       | 4                 | 1                 | 1                        | 1           | 1               | 1                | 1       | 4    | 1              | 2                    | 4           | 4                       | 4     | 4       | 1        | 1                         | 2        |                 |
| LSM       | 4   | 1         | 1      | 1       | 1       | 2       | 1       | 4                 | 1                 | 1                        | 1           | 1               | 1                | 1       | 4    | 1              | 2                    | 4           | 4                       | 4     | 4       | 1        | 1                         | 2        |                 |
| LSN       | 4   | 1         | 1      | 1       | 1       | 2       | 1       | 4                 | 1                 | 1                        | 1           | 1               | 1                | 1       | 4    | 1              | 2                    | 4           | 4                       | 4     | 4       | 1        | 1                         | 2        |                 |
| LSP       | 4   | 1         | 1      | 1       | 1       | 2       | 1       | 4                 | 1                 | 1                        | 1           | 1               | 1                | 1       | 4    | 1              | 2                    | 4           | 4                       | 4     | 4       | 1        | 1                         | 2        |                 |
| LSR       | 4   | 1         | 1      | 1       | 1       | 2       | 1       | 4                 | 1                 | 1                        | 1           | 1               | 1                | 1       | 4    | 1              | 2                    | 4           | 4                       | 4     | 4       | 1        | 1                         | 2        |                 |
| LSV       | 4   | 2         | 2      | 1       | 2       | 4       | 4       | 2                 | 4                 | 2                        | 2           | 1               | 2                | 1       | 2    | 4              | 1                    | 4           | 3                       | 4     | 4       | 2        | 2                         | 2        |                 |
| LSW       | 4   | 2         | 2      | 1       | 2       | 4       | 4       | 2                 | 4                 | 2                        | 2           | 1               | 2                | 1       | 2    | 4              | 1                    | 4           | 2                       | 4     | 4       | 2        | 2                         | 2        |                 |
| LST       | UNSEALED DEVICE, INTENDED TO MEET NEMA 1 ONLY |           |        |         |         |         |         |                   |                   |                          |             |                 |                  |         |      |                |                      |             |                         |       |         |          |                           |          |                 |
| LSS       | UNSEALED DEVICE, INTENDED TO MEET NEMA 1 ONLY |           |        |         |         |         |         |                   |                   |                          |             |                 |                  |         |      |                |                      |             |                         |       |         |          |                           |          |                 |

CODE: 1 SATISFACTORY 2 FAIR 3 DOUBTFUL 4 UNSATISFACTORY

| 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     |

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SCALE



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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