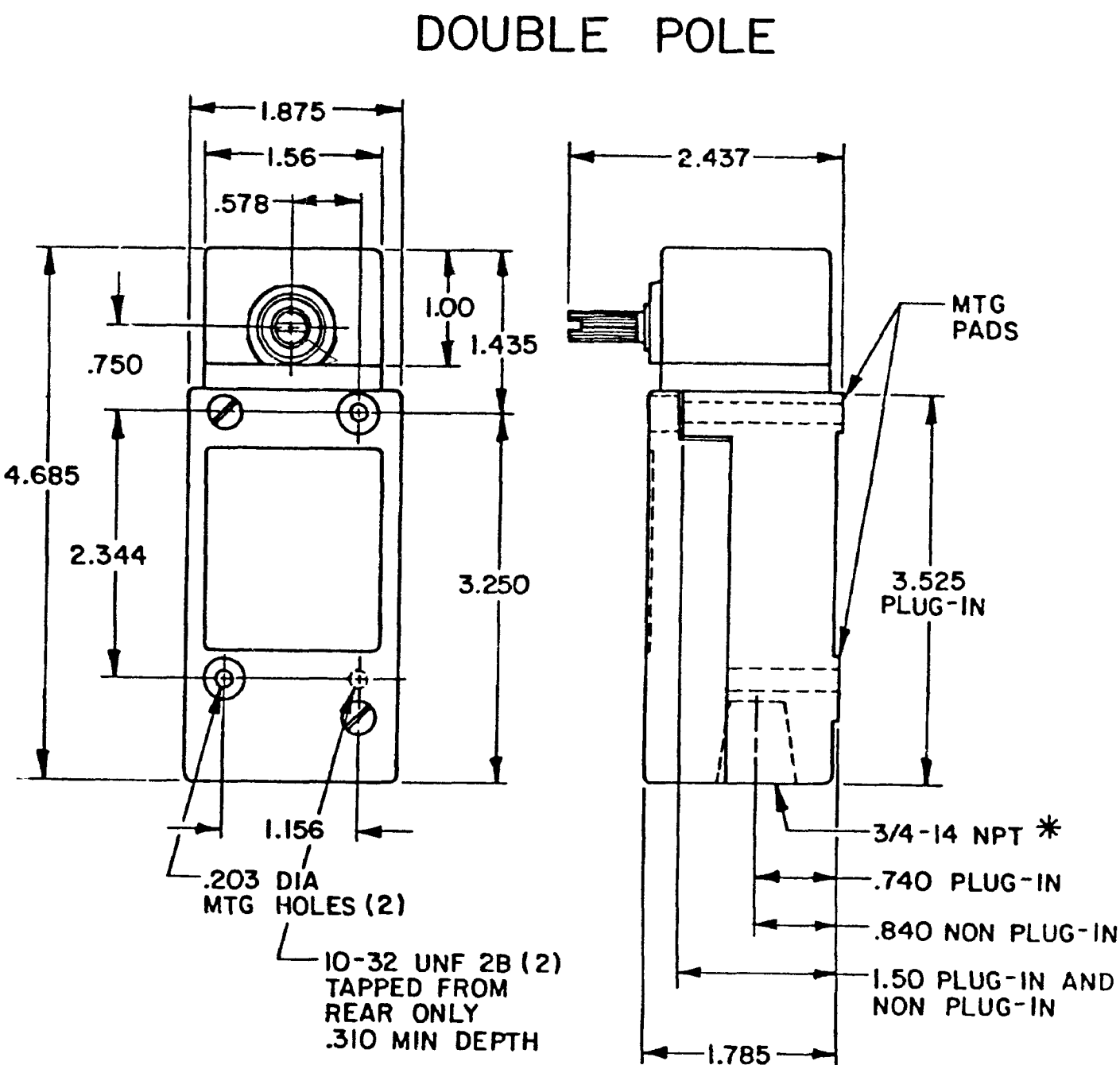


[illegible]

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

OPERATING DATA-SIDE ROTARY

INITIAL POSITION

P.T.

PRETRAVEL

DIFFERENTIAL TRAVEL

OVERTRAVEL

D.T.

O.T.

R.T.

RELEASE TRAVEL

Technical drawing of a rectangular panel with the following dimensions and labels:

- Overall width: 1.156
- Overall height: 2.344
- Inner rectangular opening height: 2.250
- Labels:
 - SEAL GASKET (pointing to the top edge)
 - .500 DIA HOLE (.625 DIA MAX PANEL HOLE RECOMMENDED) (pointing to a circular hole)
 - NO CONDUIT HOLE (pointing to the bottom edge)

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MICRO SWITCH a Honeywell Division FED. MFG. CODE 91929	SWITCH - ENCLOSED	CATALOG LISTING LSA-LSW SERIES
		CHART 1

THIRD ANGLE PROJECTION

SCALE NONE

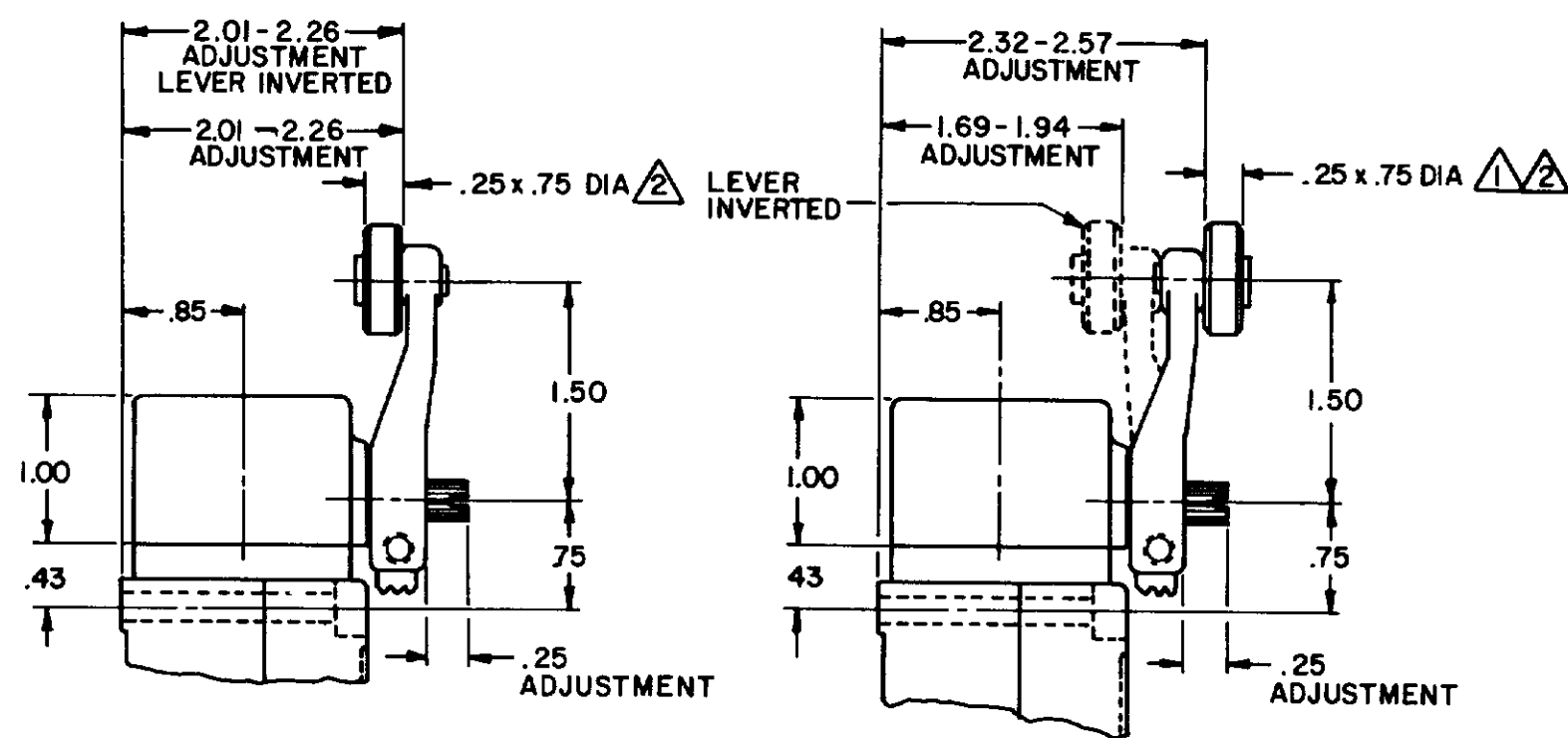
DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED
TOLERANCES ARE

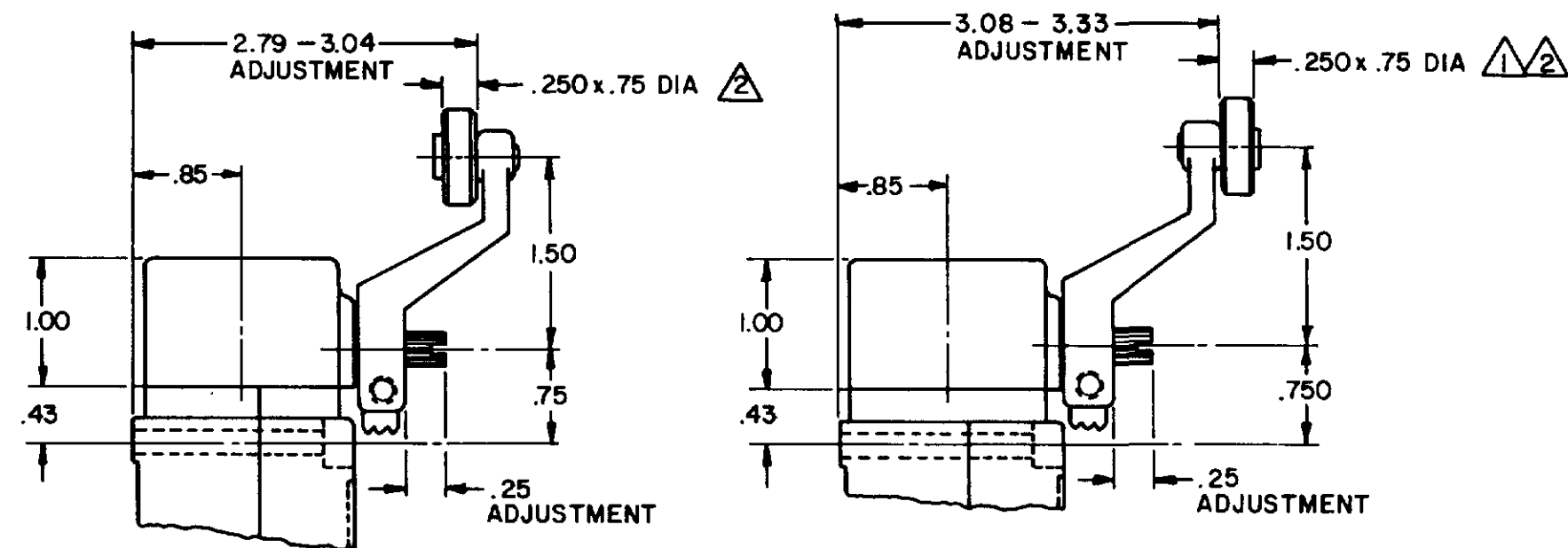
ONE PLACE	(.0)	$\pm .030$
TWO PLACES	(.00)	$\pm .015$
THREE PLACES	(.000)	$\pm .005$
ANGLES		$\pm$

WEIGHT

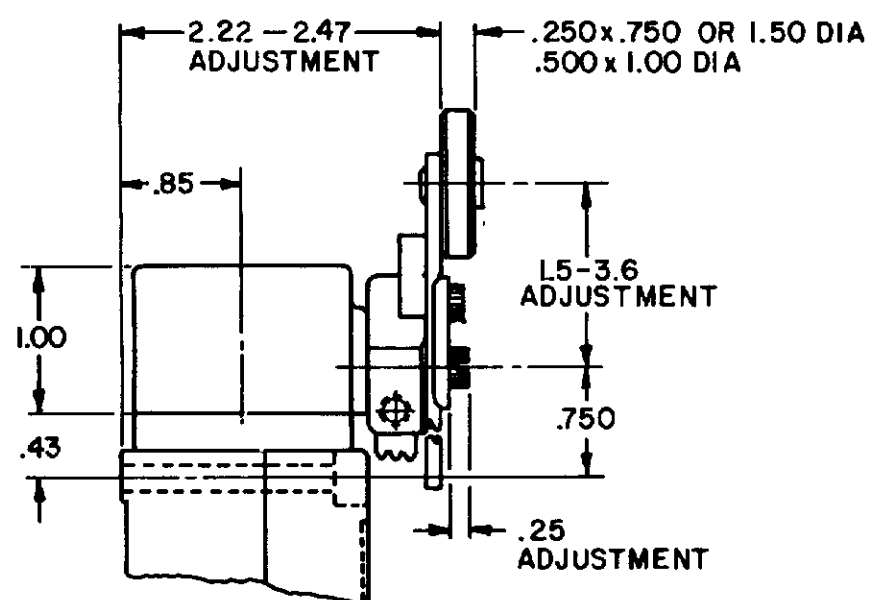
SIDE ROTARY CAM TRACKING



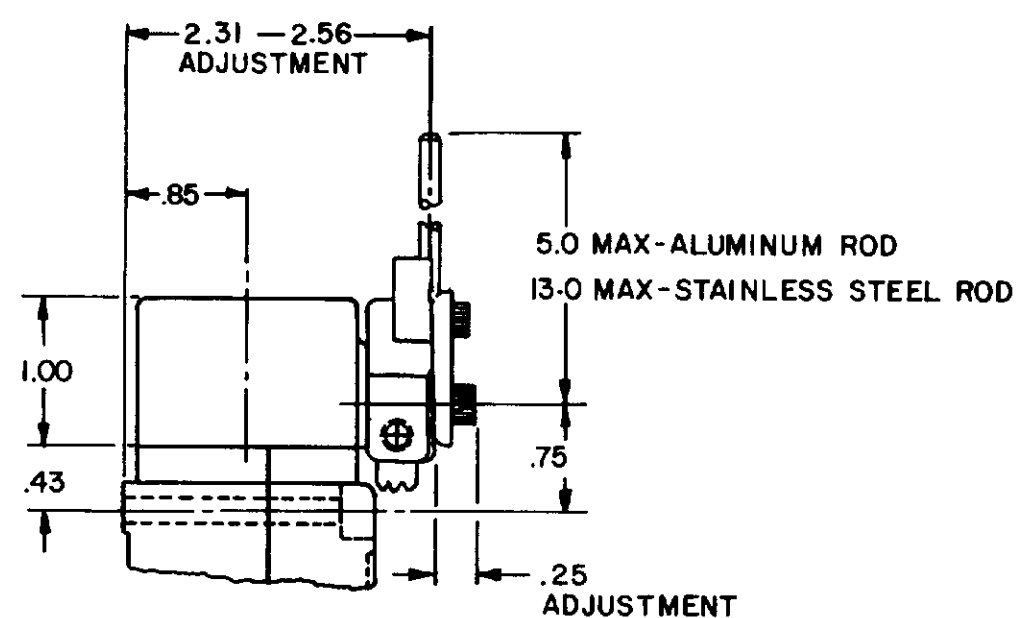
LSZ51 TYPE LEVERS



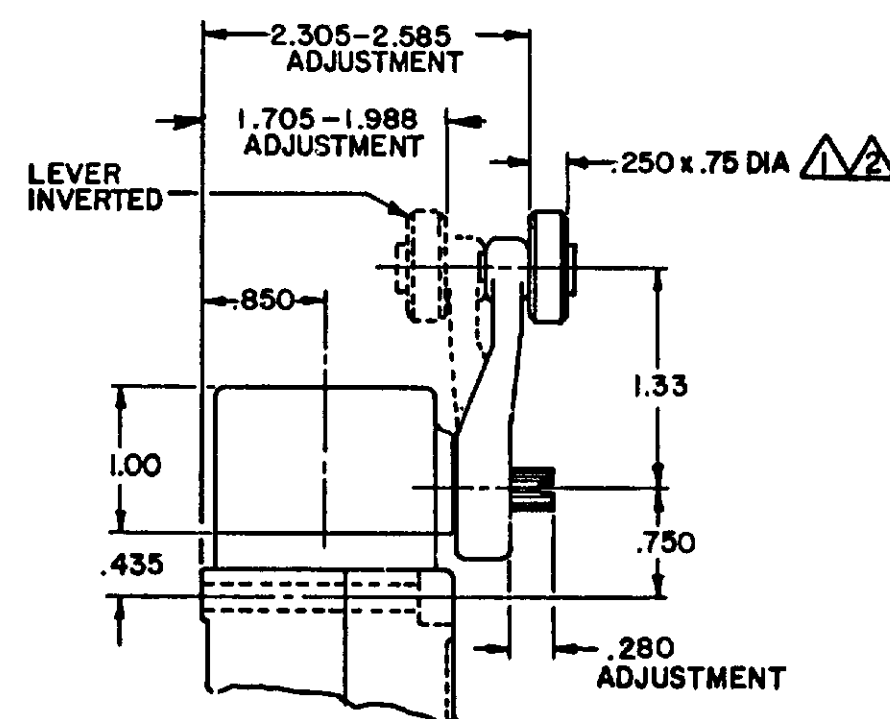
LSZ55 TYPE LEVERS



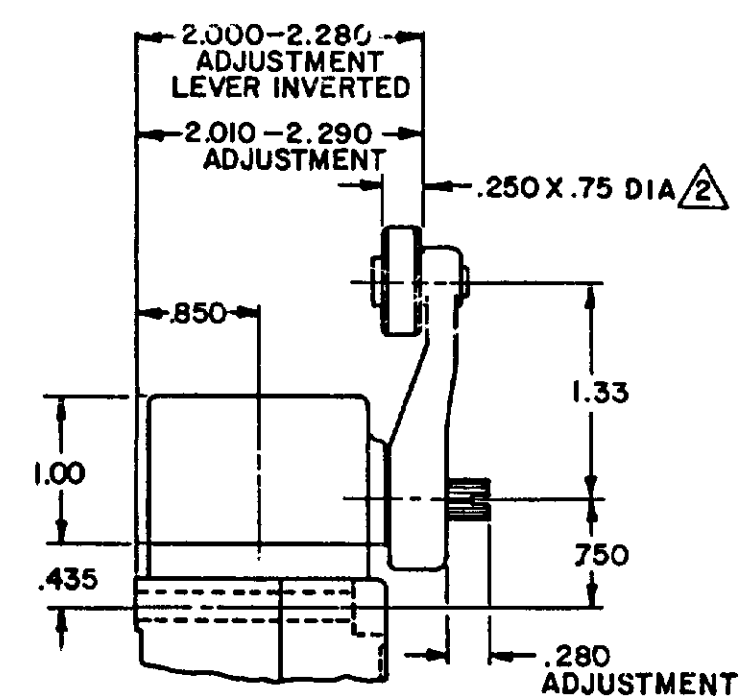
LSZ52 TYPE LEVER



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

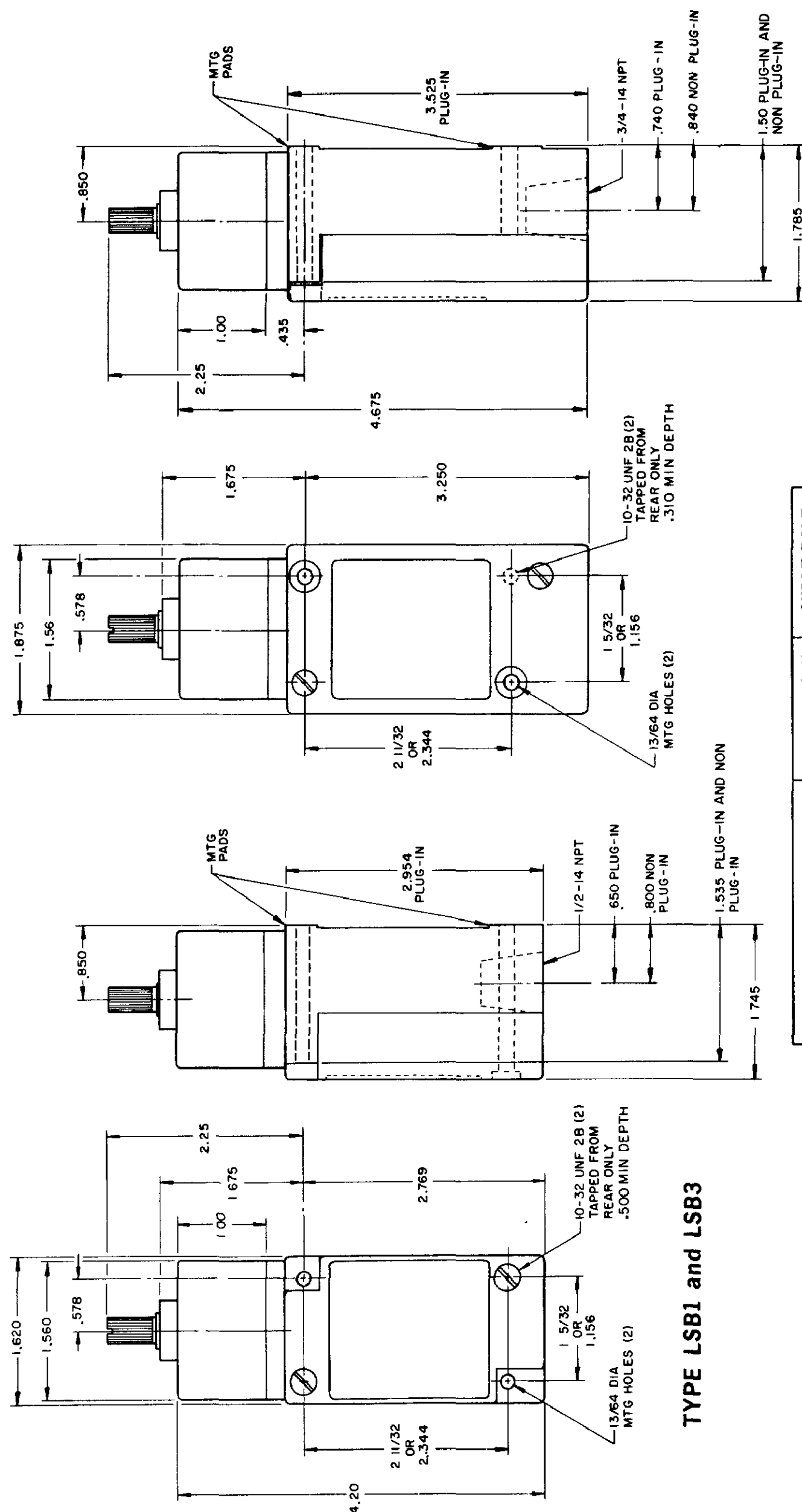
REV	DATE	BY	CHKD	DESCRIPTION
1	0031956			
2	10JUL07	BS		
3	201004	B		
4	10AUG00	C		
5	201748	C		
6	17NOV00	C		
7	202198	D		
8	28JAN01	E		
9	204871	E		
10	10FEB02	F		
11	206581	F		
12	14OCT02	G		
13	206763	G		
14	31OCT02	H		
15	207178	H		
16	14JAN03	J		
17	207474	J		
18	18FEB03	K		
19	0006871	K		

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 25°	DOUBLE POLE 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				
	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 INDUCTIVE	RESISTIVE
120	0.25	0.80
240	0.15	0.40

ELECTRONIC DUTY BASIC SWITCH
10 AMP CONT

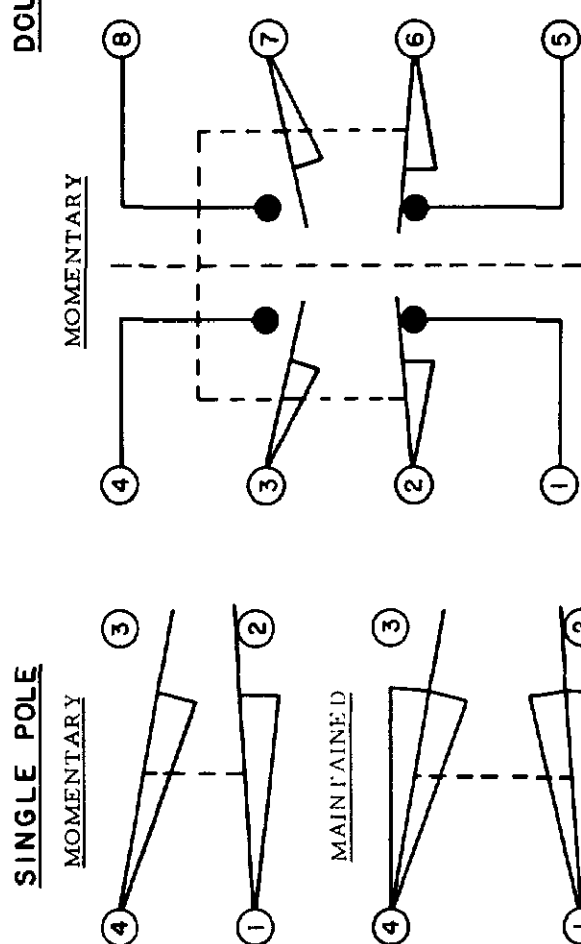
VOLTAGE	
5 AC OR DC MIN	01 AMP MIN
600 AC	720 VA
240 DC	30 WATT

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

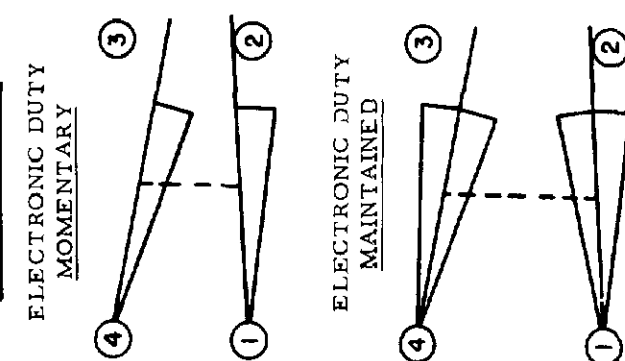
D. C. VOLTAGE	MAKE AND BREAK AMPS	
	INDUCTIVE	RESISTIVE
30	4.2	4.2
120	1.1	1.1
240	.55	.55

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

DOUBLE POLE

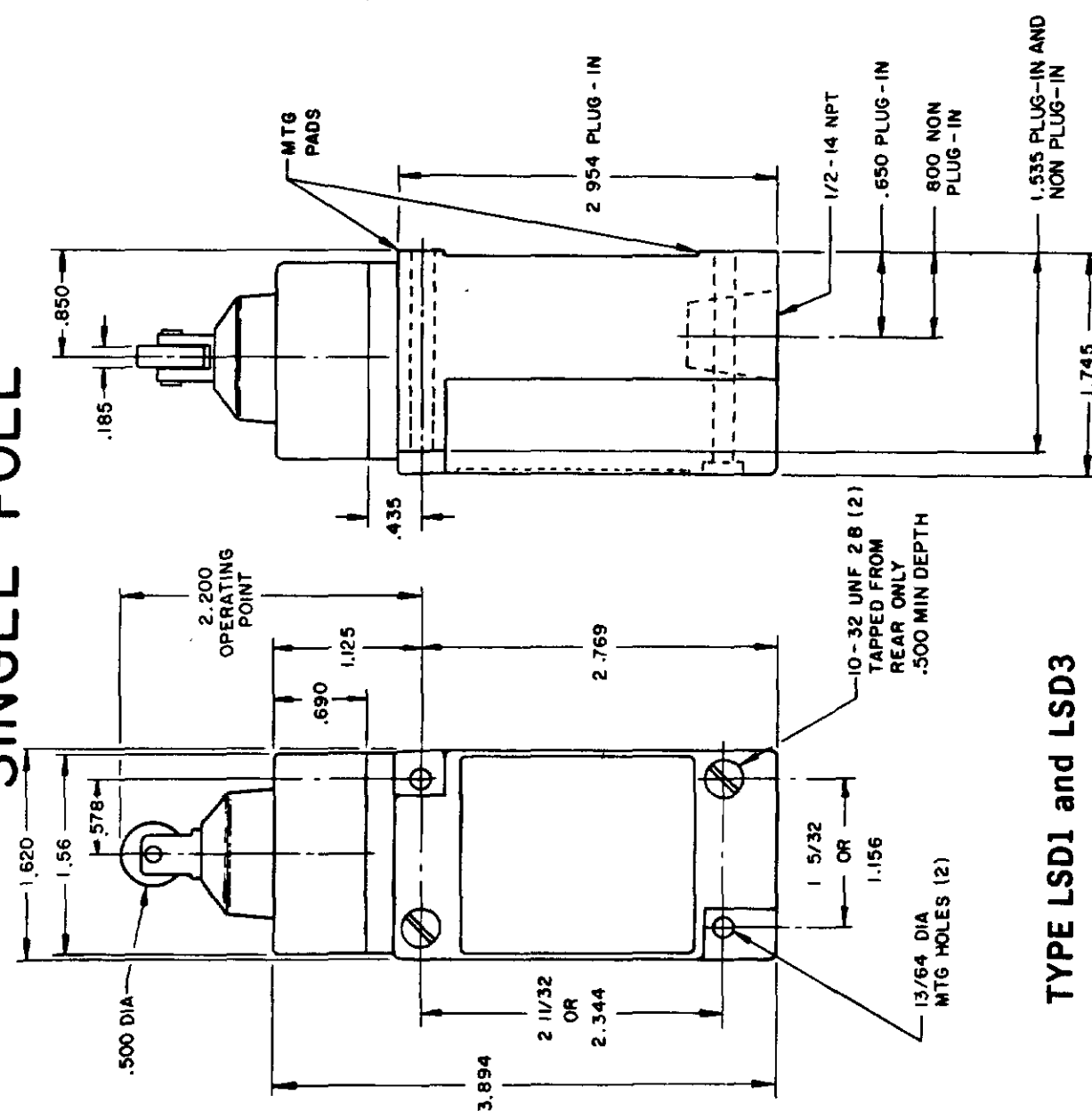


SINGLE POLE



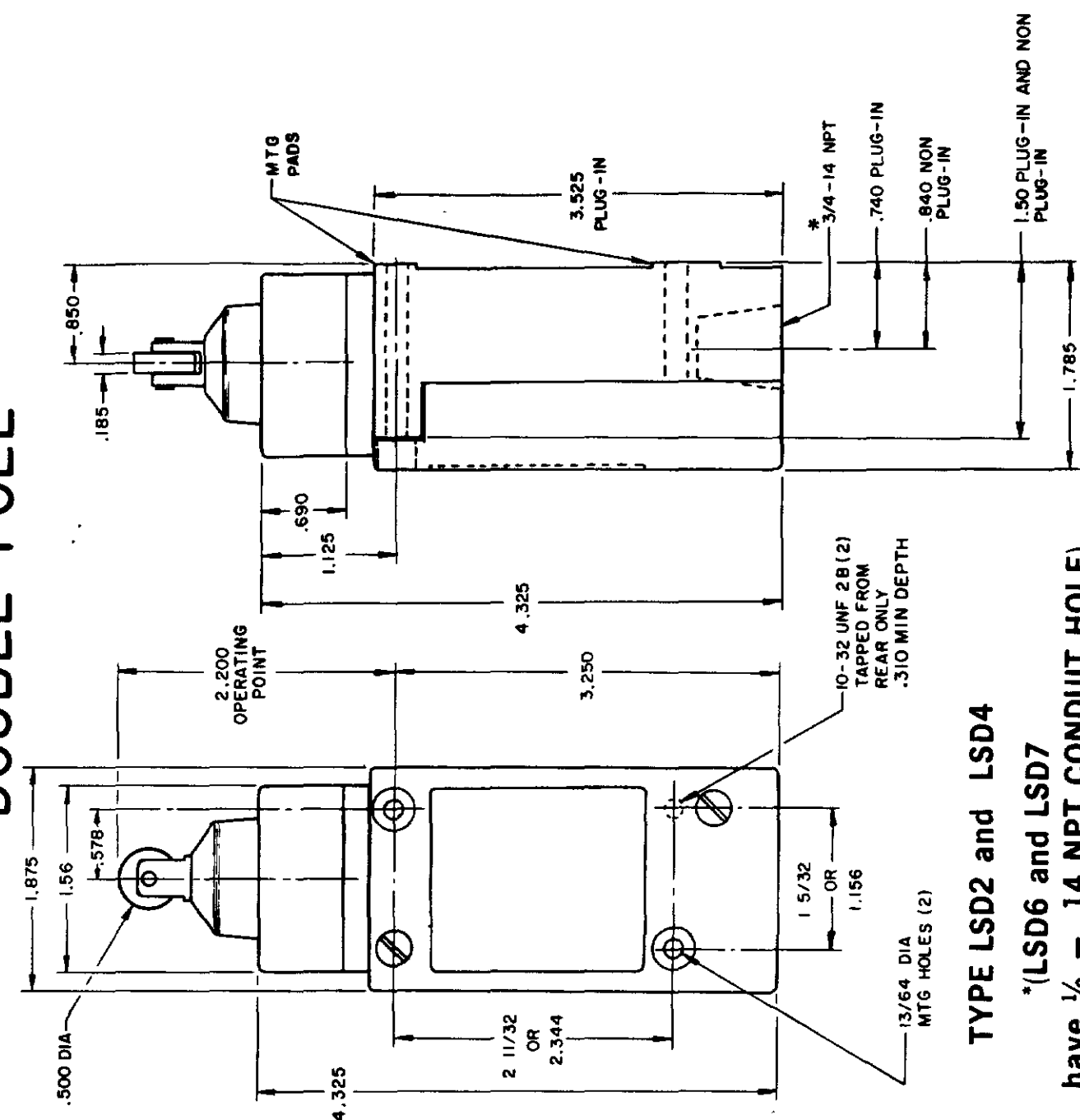
DIRECT ACTING

SINGLE POLE



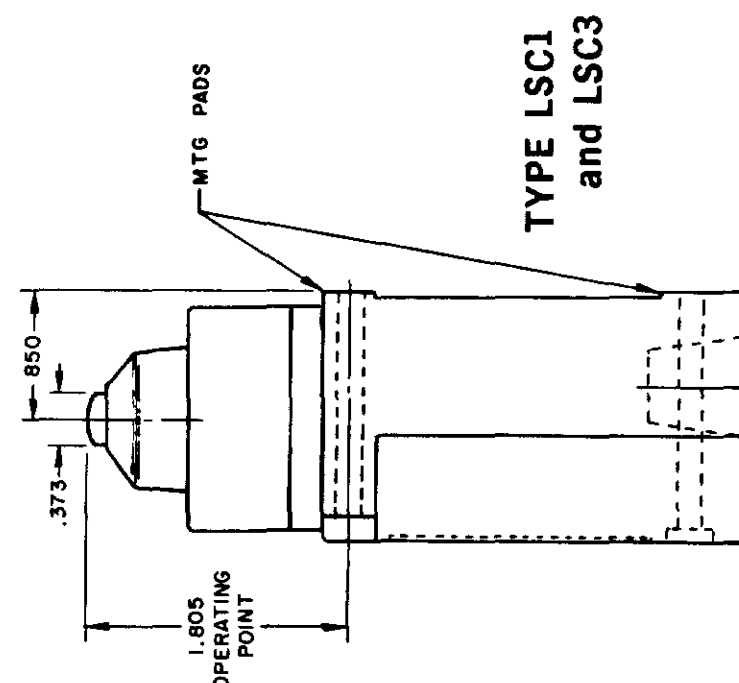
TYPE LSD1 and LSD3

DOUBLE POLE

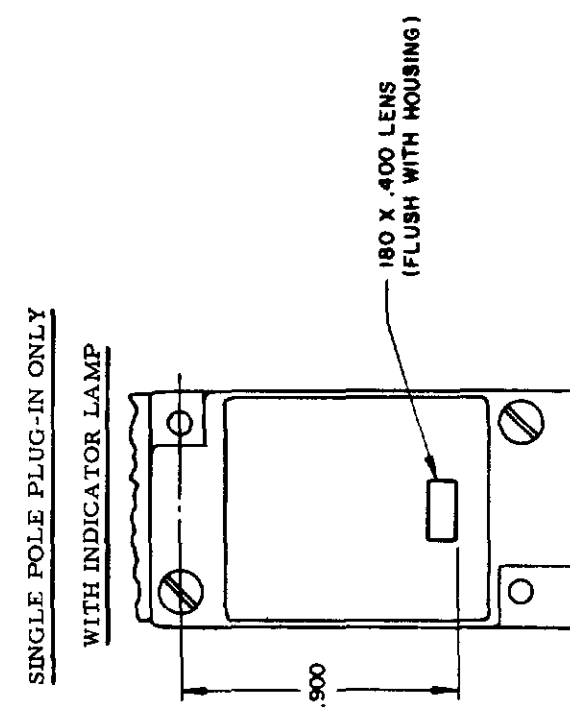


TYPE LSD2 and LSD4

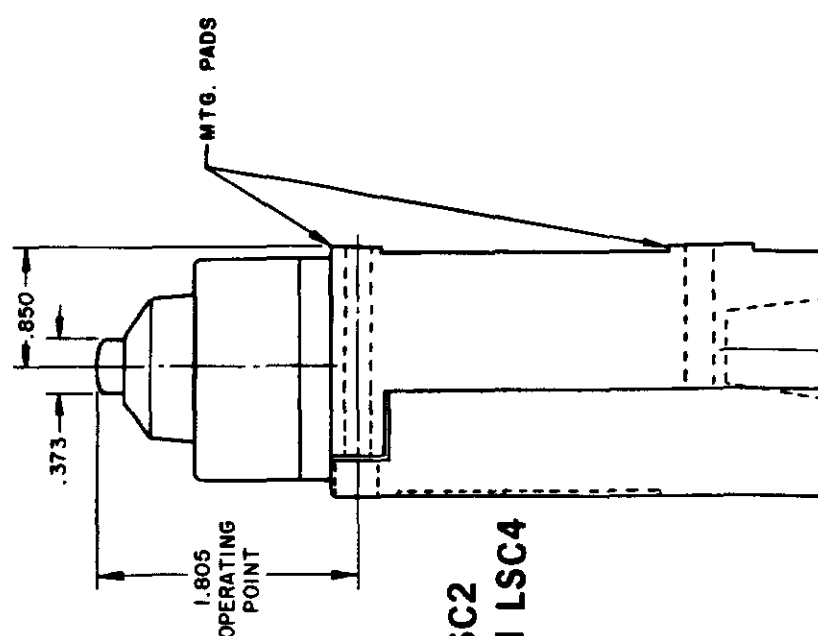
*(LSD6 and LSD7 have 1/2 - 14 NPT CON



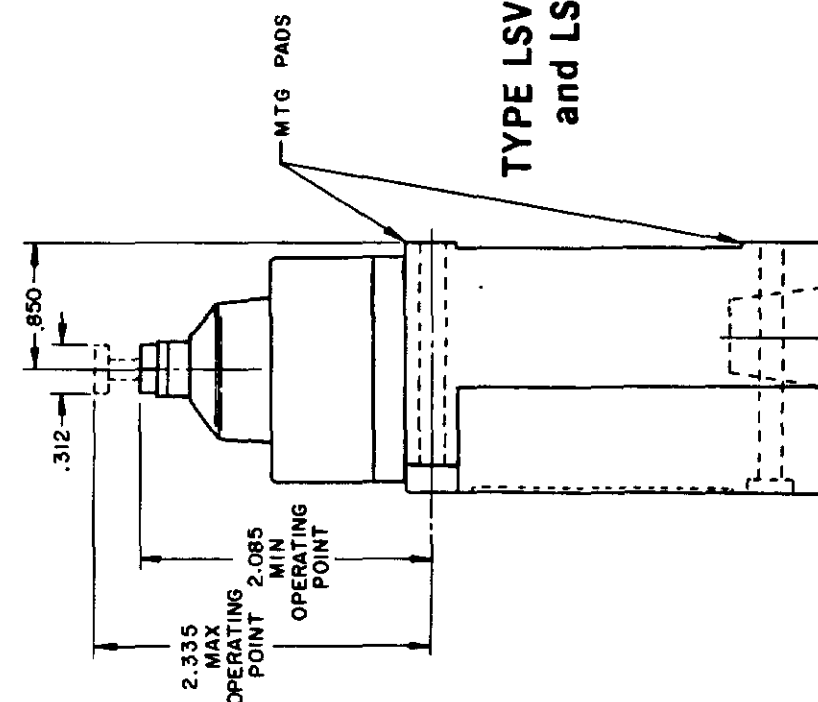
TYPE LSC1 and LSC3



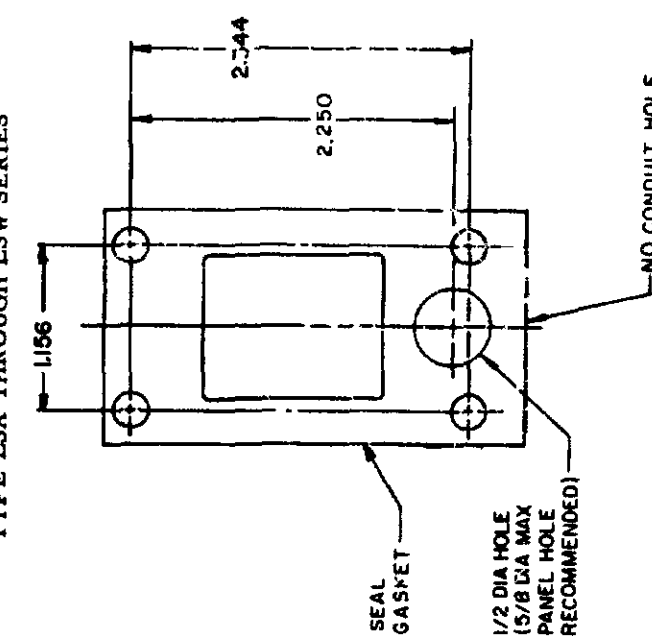
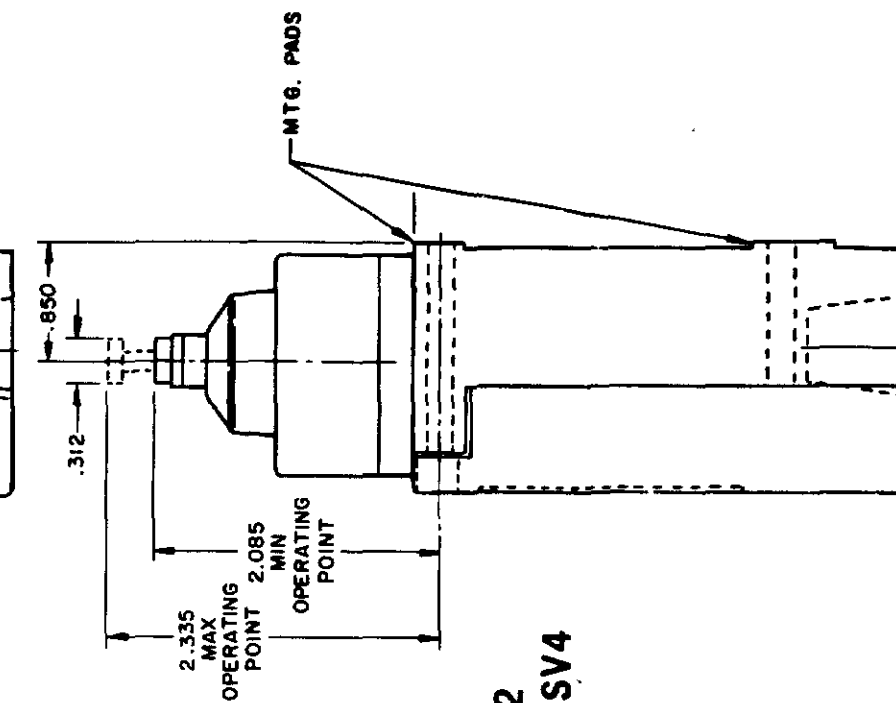
**TYPE LSC2
and LSC4**



**TYPE LSV1
and LSV3**



**TYPE LSV2
and LSV4**



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MICRO SWITCH
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SWITCH - ENCLOSED

CATALOG LISTING

LSA-LSW SERIES

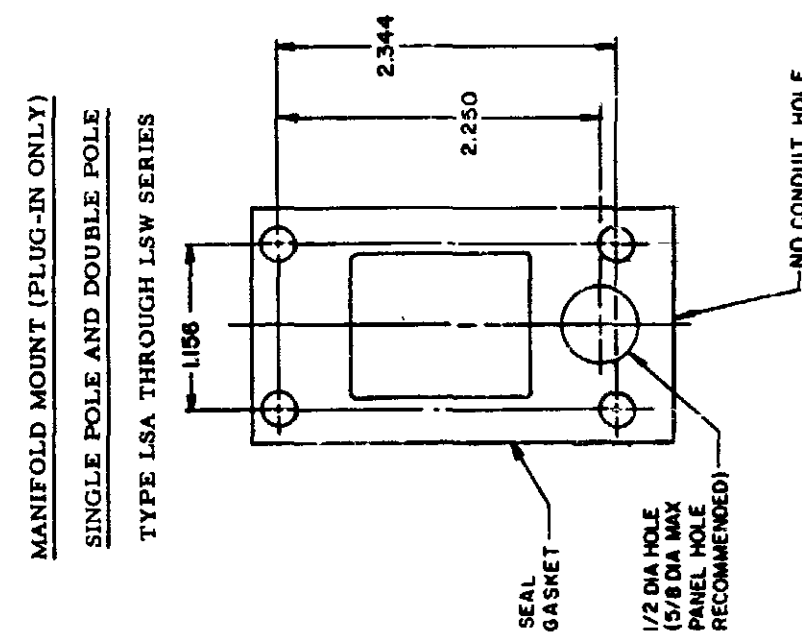
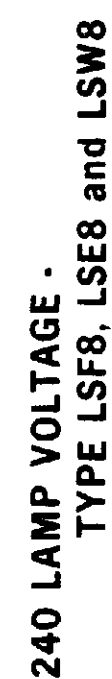
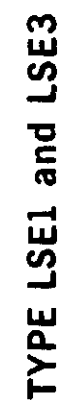
CHART 1

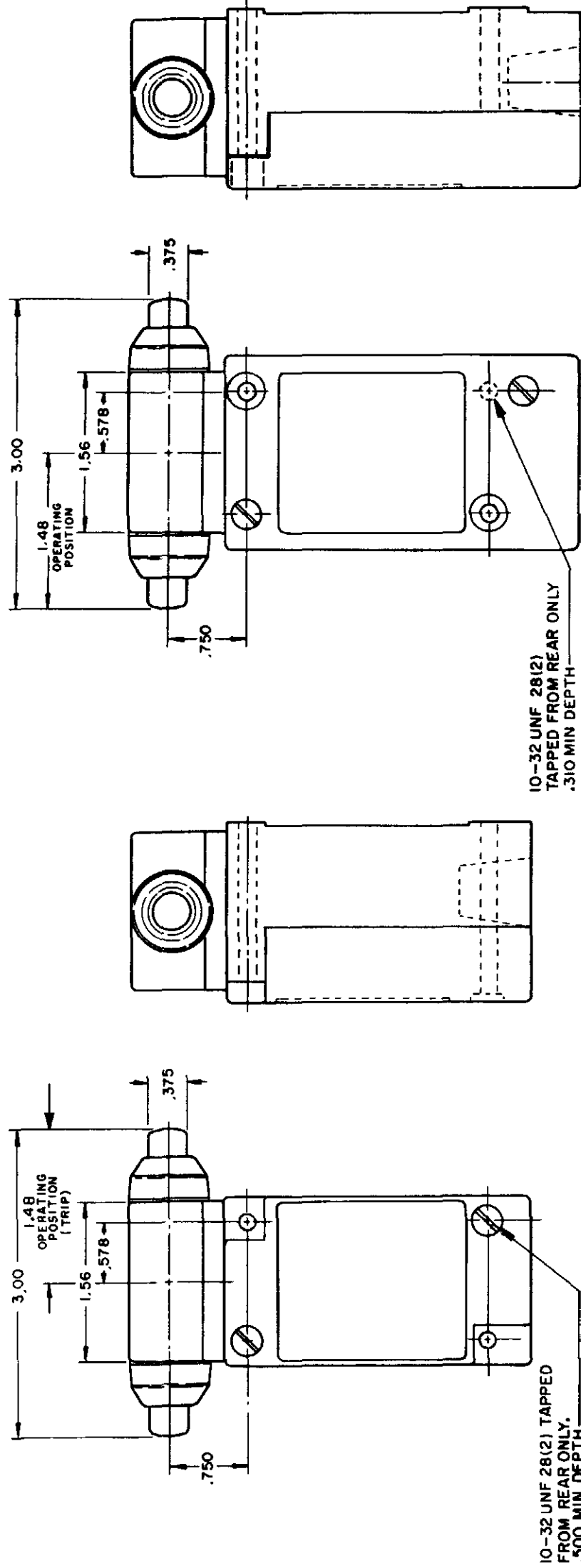
PAGE 4 OF 10

SCALE NON8

DO NOT SCALE PRINT

SINGLE POLE DOUBLE POLE





TYPE LSG1 and LSG3

TYPE LSG2 and LSG4

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

TOP PLUNGER TYPES

OPERATING POINT GIVEN
IN RELATION TO TOP
MOUNTING HOLE

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

SIDE PLUNGER TYPES

OPERATING POINT GIVEN IN
RELATION TO CENTER OF HEAD

CHARACTERISTICS	LSE PLUNGER	LSF ROLLER PLUNGER	LSW ADJ PLUNGER	SEQUENCE BASIC		
				LSE	LSF	LSW
PRETRAVEL (MAX)	.100	.100	.170	1ST STEP .100		
DIFFERENTIAL TRAVEL (MAX)	.045	.045	.090	2ND STEP .020 MIN ADD'L		
OVERTRAVEL (MIN)	.190	.190	.080	.025 EACH STEP		
OPERATING FORCE (MAX)	6 LBS	6 LBS	10 LBS	.170		
OPERATING POINT	1.300 ± .030	1.735 ± .040	ADJUSTABLE FROM 1.615 MIN 1.865 MAX	1ST STEP		
FULL OVERTRAVEL FORCE (MAX)	6 LBS	6 LBS	10 LBS	1.310±.030 1.745±.040 1.625 MIN / 1.875 MAX		

REVISIONS	BS	10 JUL 07	
	B	201004	
C	10 AUG 00		
	C	201748	
D	17 NOV 00		
	D	202198	
E	23 JAN 01		
	E	204871	
F	14 FEB 02		
	F	206581	
G	14 OCT 02		
	G	206763	
H	31 OCT 02		
	H	207179	
J	14 JAN 03		
	J	207474	
K	18 FEB 03		
	K	0006871	

ISSUE	12	PSR	10 JUL 07	CHECK	AK	11 AUG 04	RELEASE NO	CO-78498	REPLACES	LSA-LSW SERIES
M LSA-LSW SERIES CHART 1										
PAGE 7 OF 10										

CATALOG LISTING	LSA-LSW SERIES CHART 1
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MAST
DRAWN

MAM 15 JUN 94

11 AUG 04

11 JUL 94

11 JUL 94

11 JUL 94

11 JUL 94

11 JUL 94

11 JUL 94

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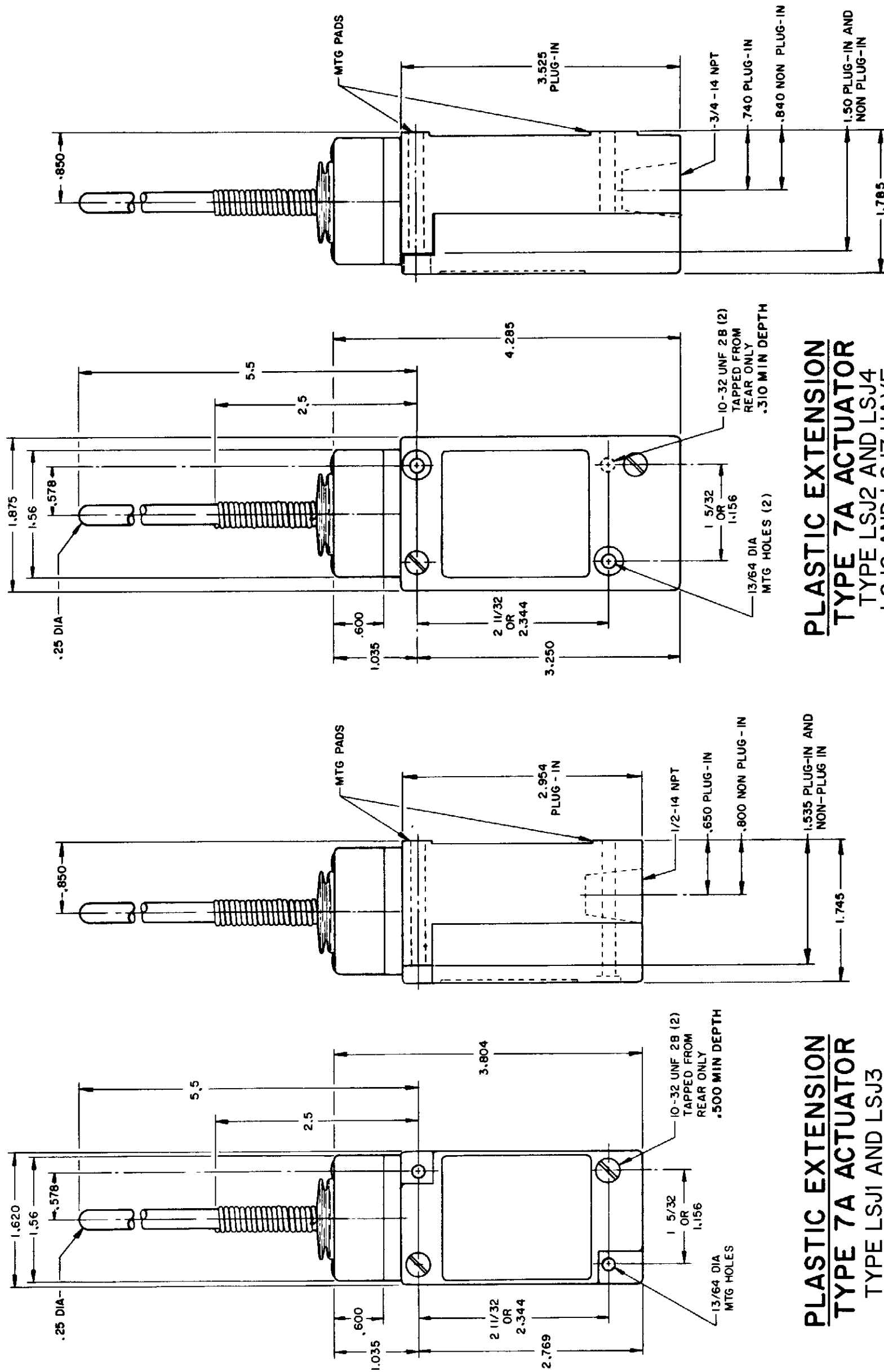
11 JUL 94

11 JUL 94

WOBBLE STICK

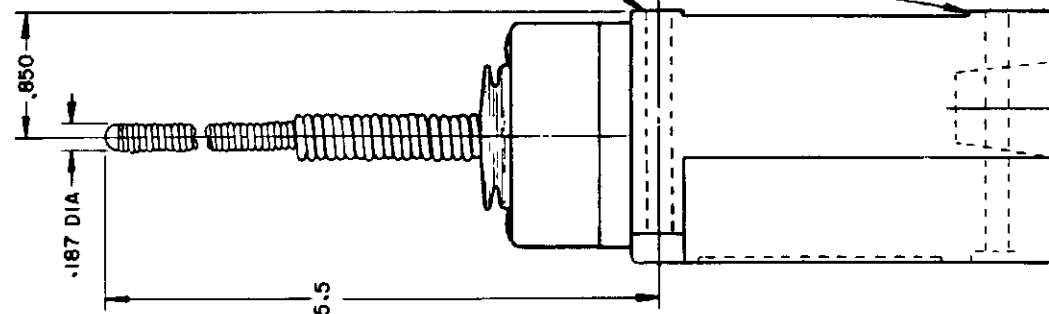
SINGLE POLE

DOUBLE POLE

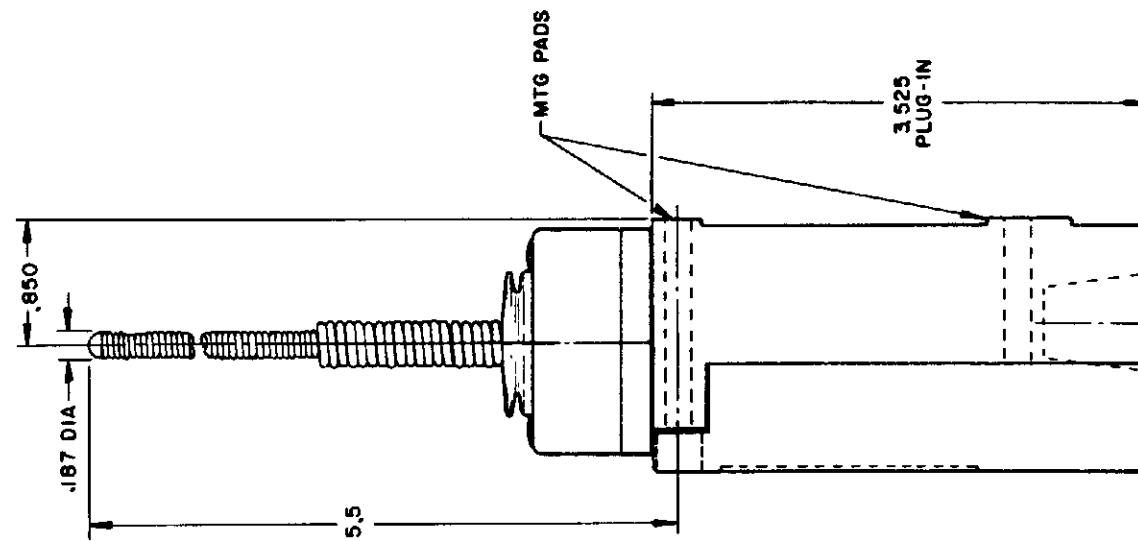


**PLASTIC EXTENSION
TYPE 7A ACTUATOR**
TYPE LSJ1 AND LSJ3

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

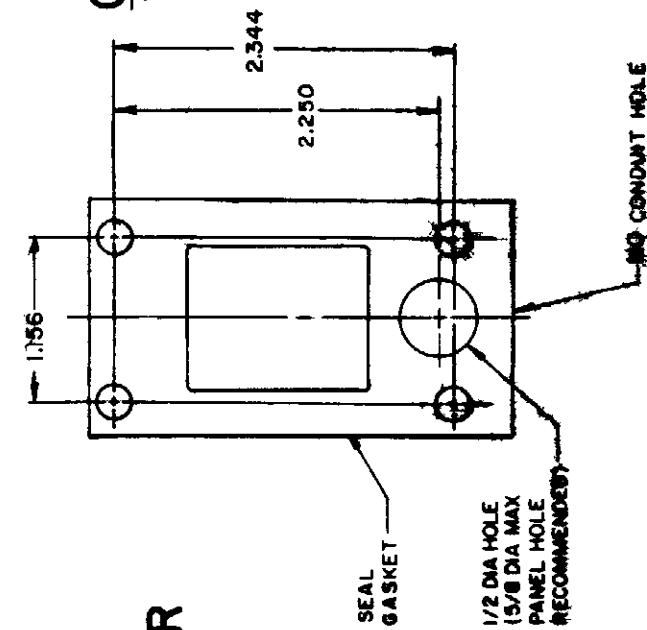


**REPLACEMENT ACTUATOR
LSZ-4009**



**CABLE EXTENSION
TYPE 7N ACTUATOR**

**CABLE EXTENSION
TYPE 7N ACTUATOR**



**REPLACEMENT ACTUATOR
LSZ-4011**

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FED MFG CODE 91929

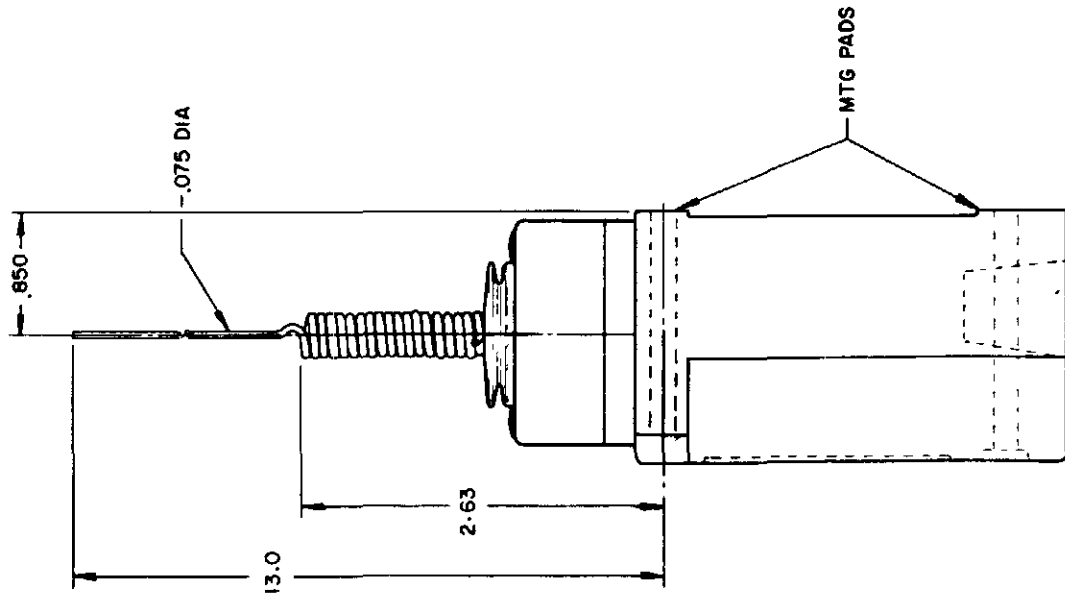
SWITCH - ENCLOSED

LSA-LSW SERIES
CHART 1

CATALOG LISTING

PAGE 7 OF 10

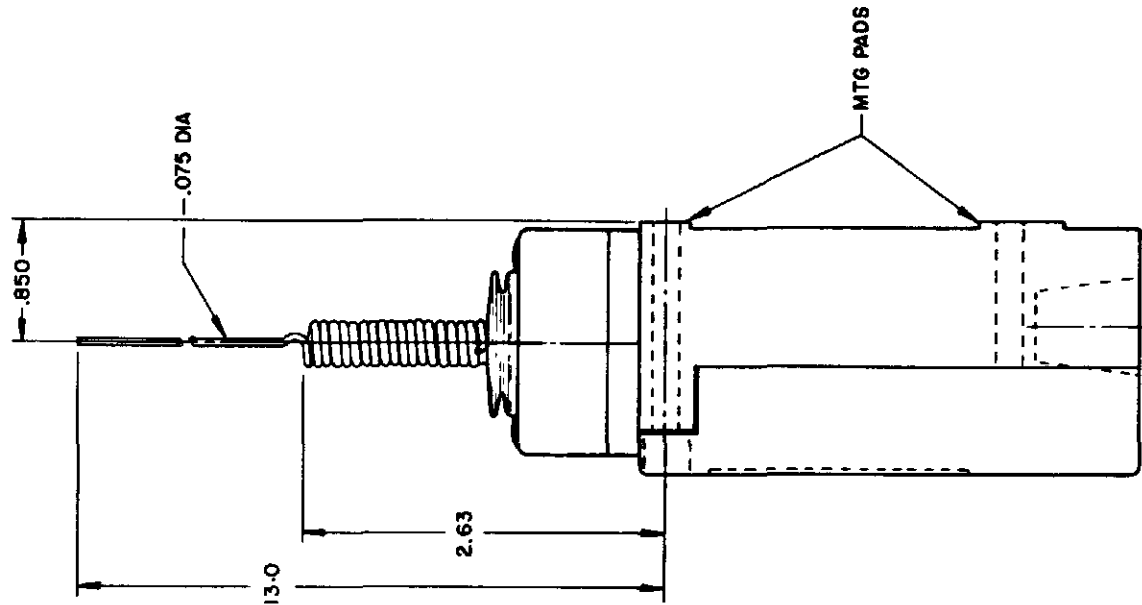
SCALE NONE
DO NOT SCALE PRINT



WIRE EXTENSION TYPE 7M ACTUATOR

TYPE LSJ1 and LSJ3

REPLACEMENT ACTUATOR - LSZ 4010

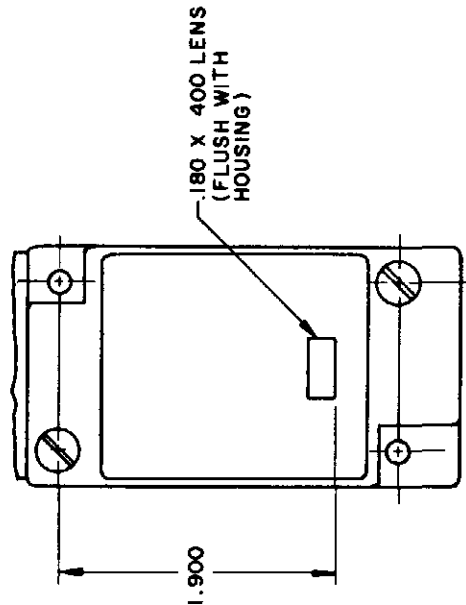


WIRE EXTENSION TYPE 7M ACTUATOR

TYPE LSJ2 and LSJ4

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

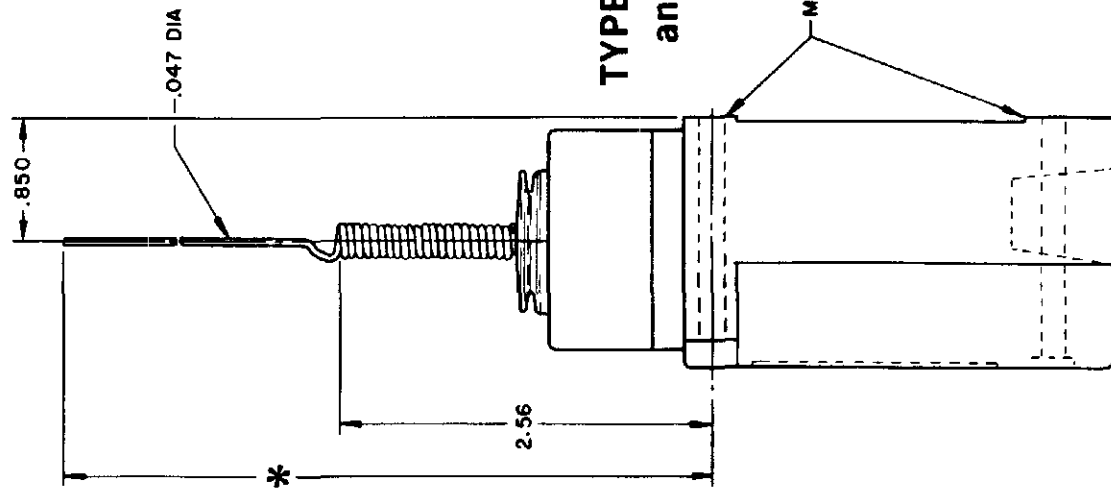
SINGLE POLE PLUG-IN ONLY
WITH INDICATOR LAMP



120 LAMP VOLTAGE TYPE LSJ5
240 LAMP VOLTAGE TYPE LSJ8

CAT WHISKER

SINGLE POLE

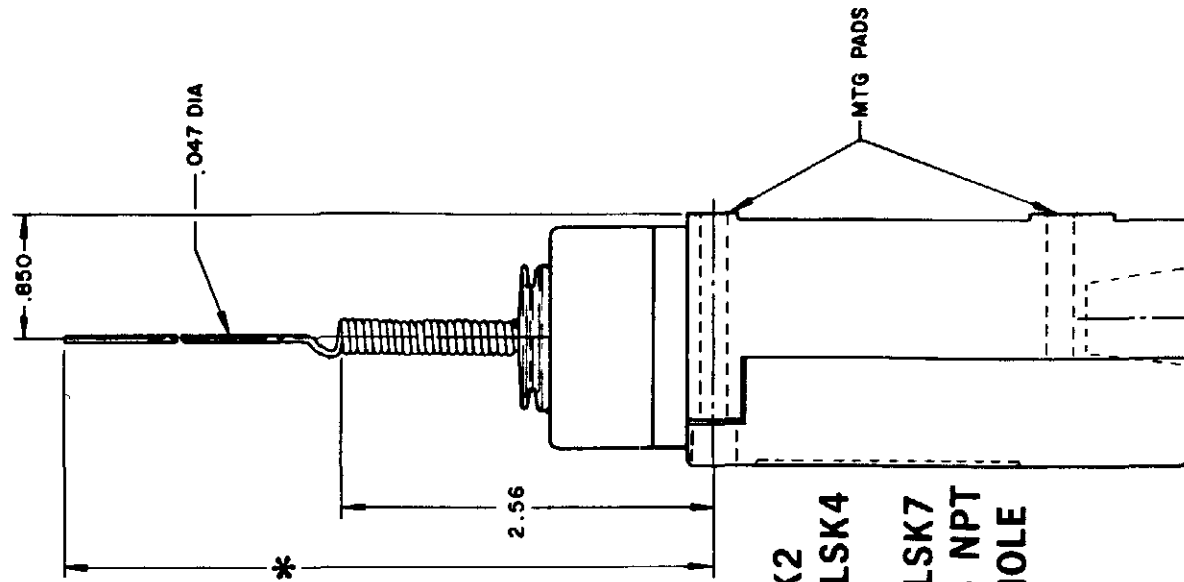


TYPE LSK1
and LSK3

120 LAMP VOLTAGE
TYPE LSK5 - CAT WHISKER TYPE LSB5 - TOP ROTARY
240 LAMP VOLTAGE
TYPE LSK8 - CAT WHISKER TYPE LSB8 - TOP ROTARY

*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. - LSZ4036

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.

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

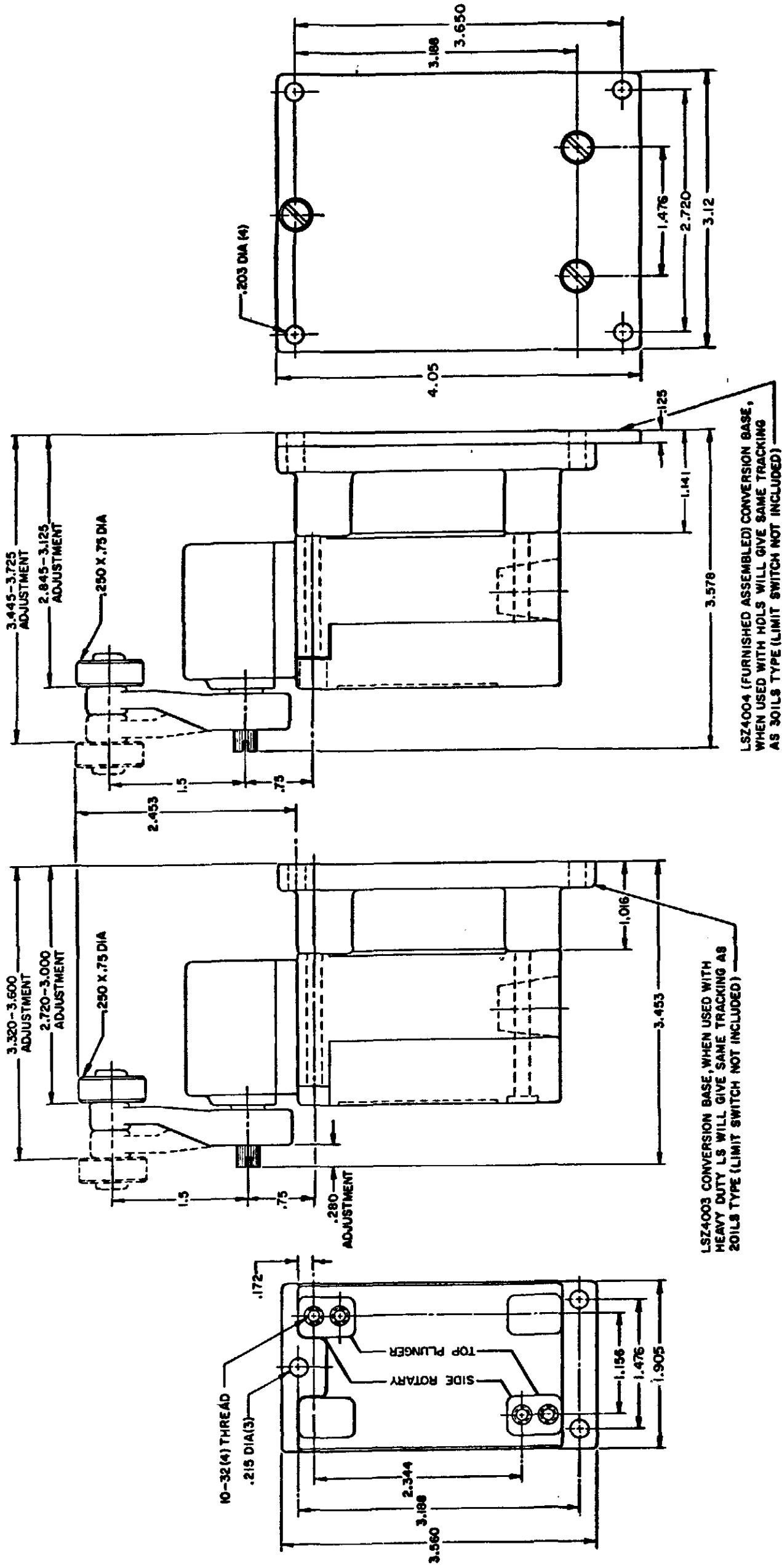
REV	DATE	BY	CHKD	DESCRIPTION
L	0031956			BS
B	10JUL07			201004
C	201748			201748
D	202198			202198
E	204871			204871
F	206581			206581
G	206763			206763
H	207179			207179
J	207474			207474
K	0006871			0006871

ISSUE	CATALOG LISTING	12	PSR	10JUL07	RELEASE NO	CO-78498	REPLACES	LSA-LSW SERIES
M	LSA-LSW SERIES CHART 1	PAGE 9 OF 10						
MAM	15 JUN 94	CHKD	JAF	11 JUL 94	CHKD	AK	11 AUG 04	CHKD

CONVERSION BASES

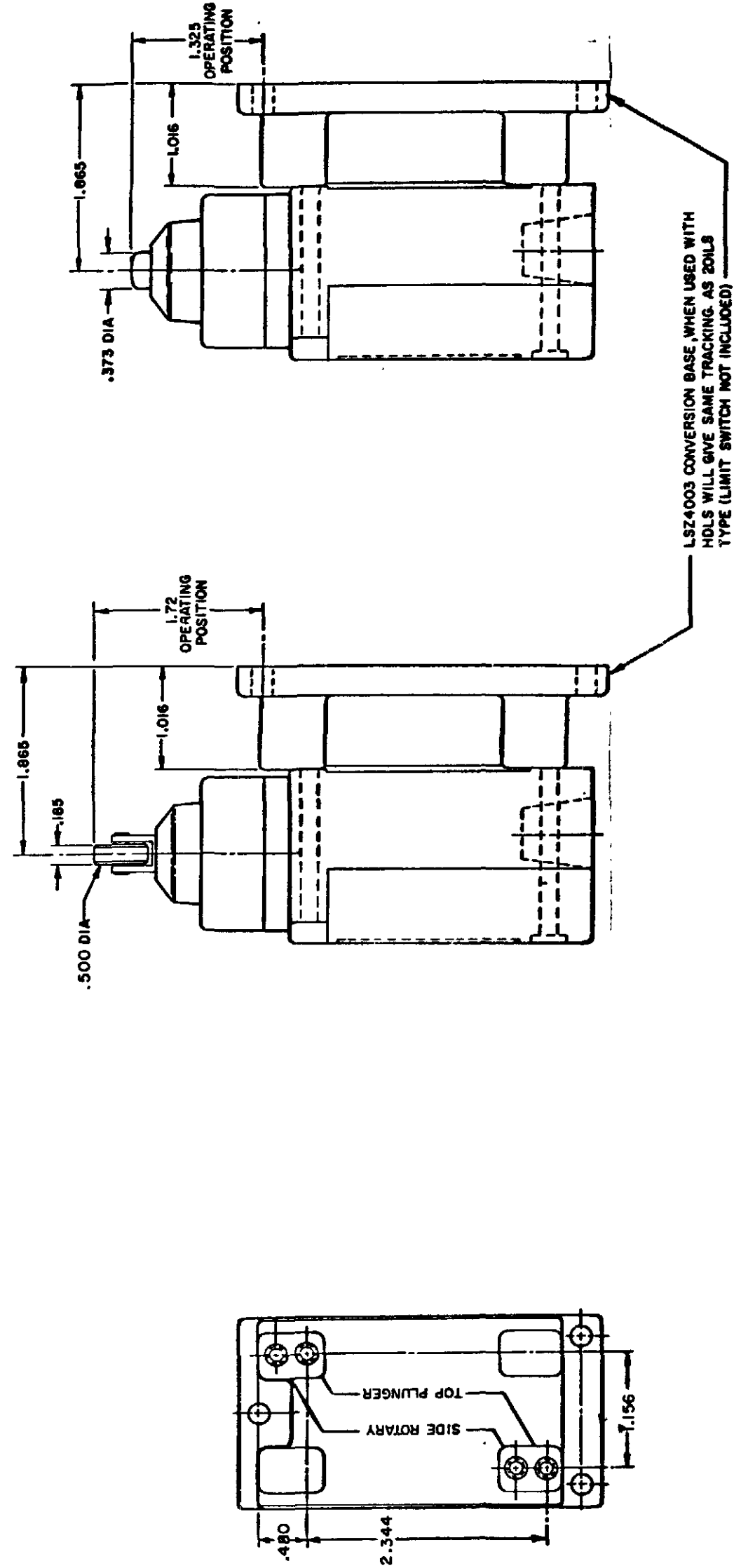
SINGLE POLE
(SIDE ROTARY)
LSZ 4003

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

HEAD TYPE	CELLULOSE	DETERGENT	5 STAR	ASTM #1	ASTM #2	ASTM #3	ASTM #4	HOUGHTON SAFE 271	HOUGHTON SAFE 820	HOUGHTON SAFE 1010	MINERAL OIL	PETROL OIL	SILICON CR & OIL	SUNSAFE	BEER	STODDARD SOLV.	CHLORINATED SOLVENTS	CITRIC ACID	DI-ESTER SYN. LUBRICANTS	OZONE	HYDRAUL	PROGUARD	PETROL 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	1	1	2		
LSB	4	1	1	1	1	2	1	4	1	1	1	1	1	1	4	1	2	4	4	4	1	1	2		
LSC	4	2	2	1	2	4	4	2	4	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	1	2	1	2	4	1	4	3	4	4	2	2	2		
LSE	4	2	2	1	2	4	4	2	4	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	1	2	1	2	4	1	4	2	4	4	2	2	2		
LSG	4	2	2	1	2	4	4	2	4	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	1	1	2		
LSJ	4	2	2	1	2	4	4	2	4	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	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	1	1	2		
LSM	4	1	1	1	1	2	1	4	1	1	1	1	1	1	4	1	2	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	1	1	2		
LSP	4	1	1	1	1	2	1	4	1	1	1	1	1	1	4	1	2	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	1	1	2		
LSV	4	2	2	1	2	4	4	2	4	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	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

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

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Электрон
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