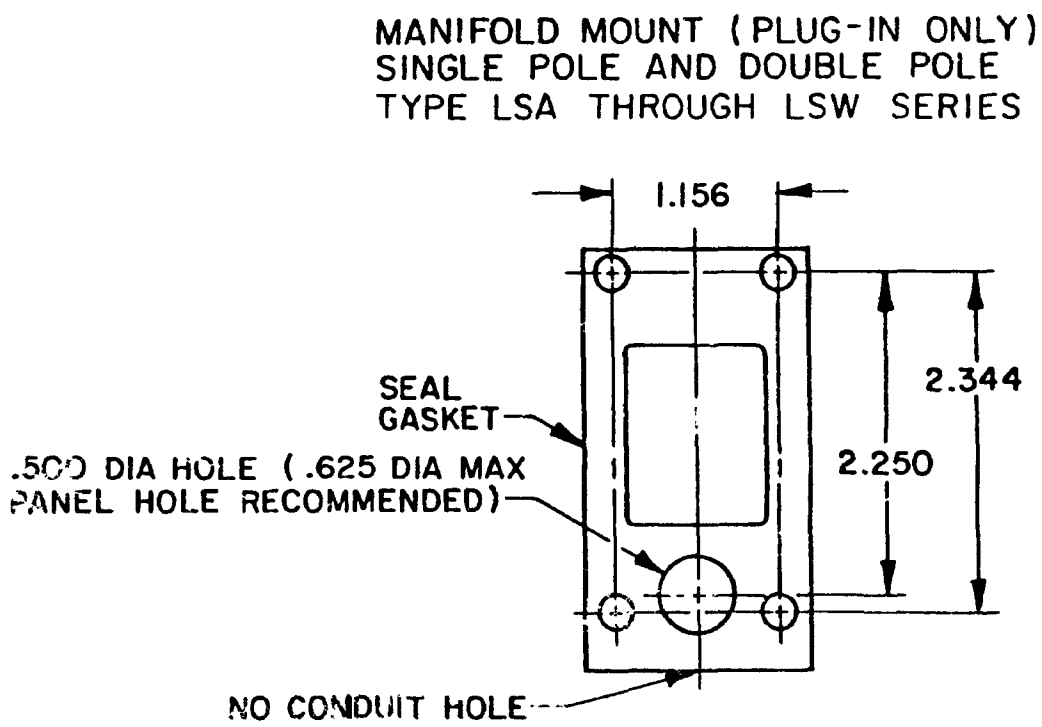
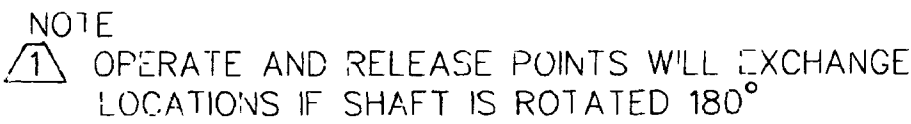
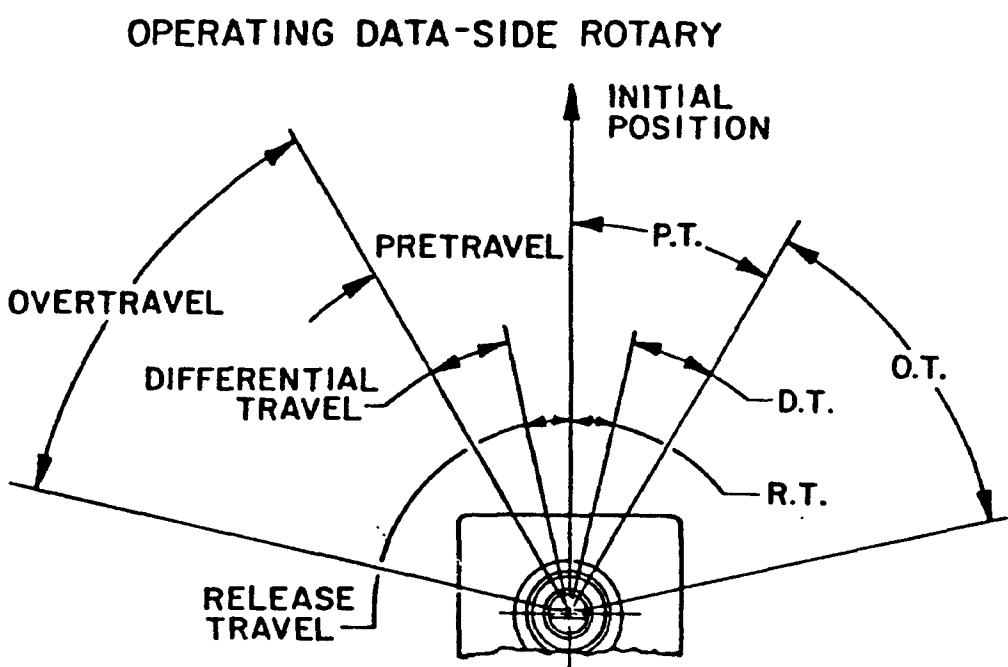
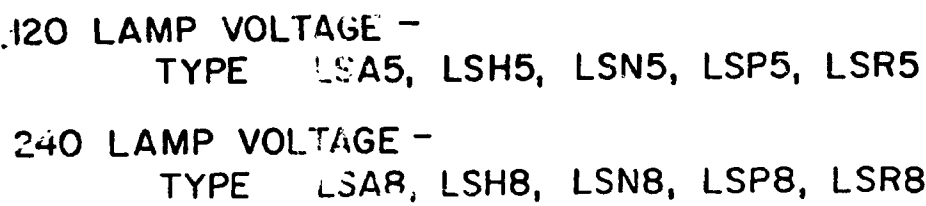
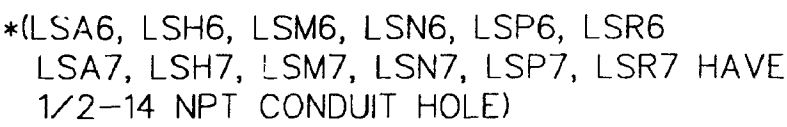
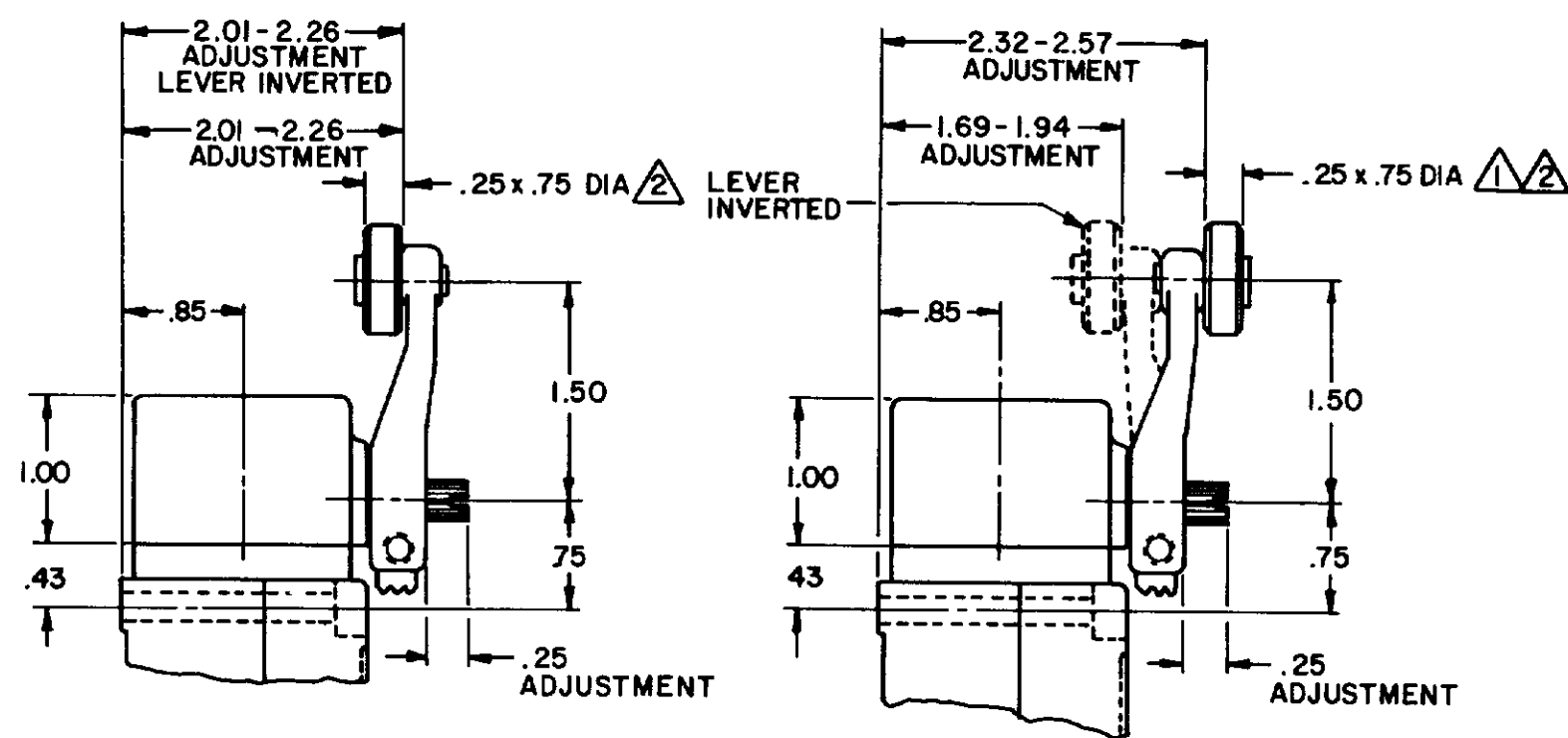


MAM	15 JUN 94	CHECK	JAF	11 JUL 94	CHECK	AK	11AUG04	CHECK	PSR	10JUL07	RELEASE NO	CO--78498	REPLACES	LSA--LSW SERIES
-----	-----------	-------	-----	-----------	-------	----	---------	-------	-----	---------	------------	-----------	----------	-----------------

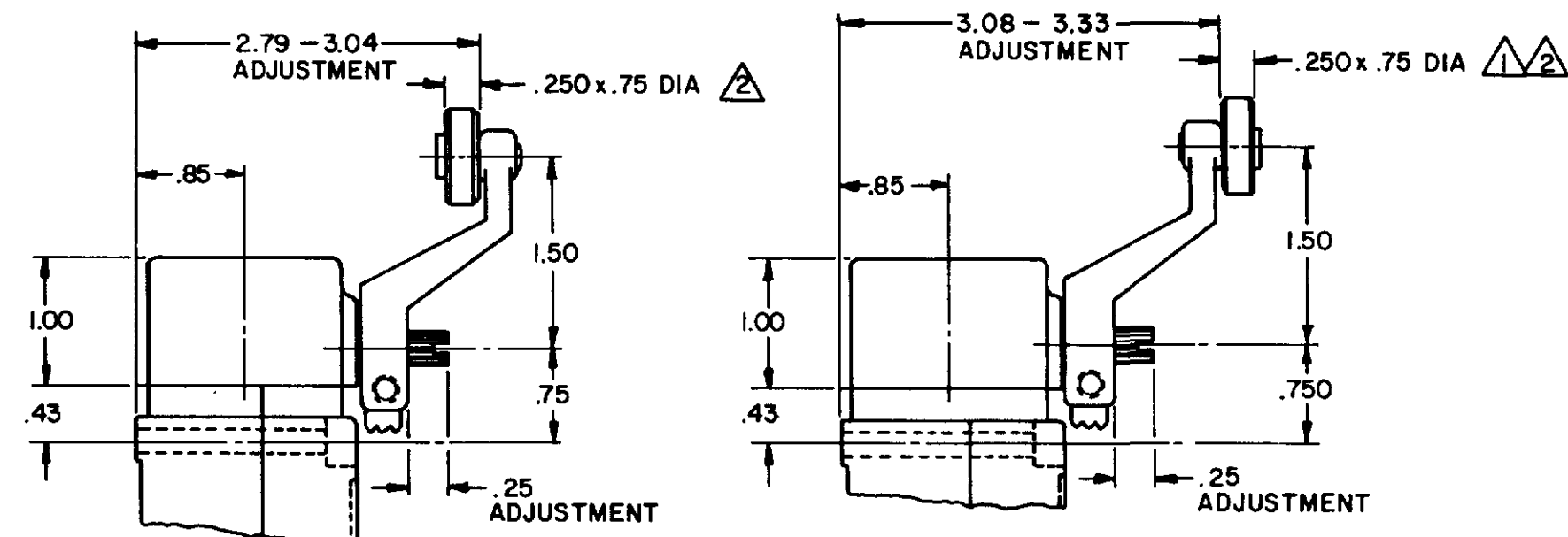
DOUBLE POLE



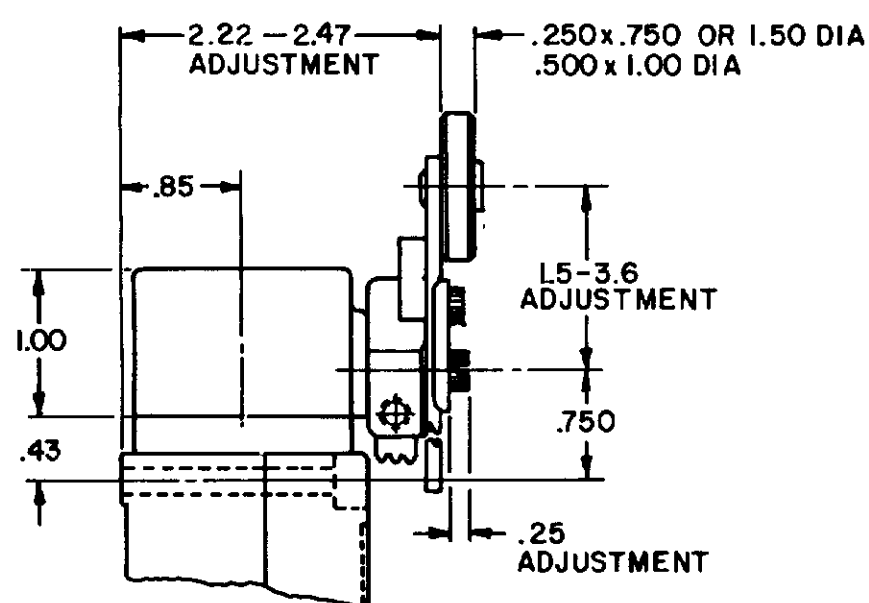
SIDE ROTARY CAM TRACKING



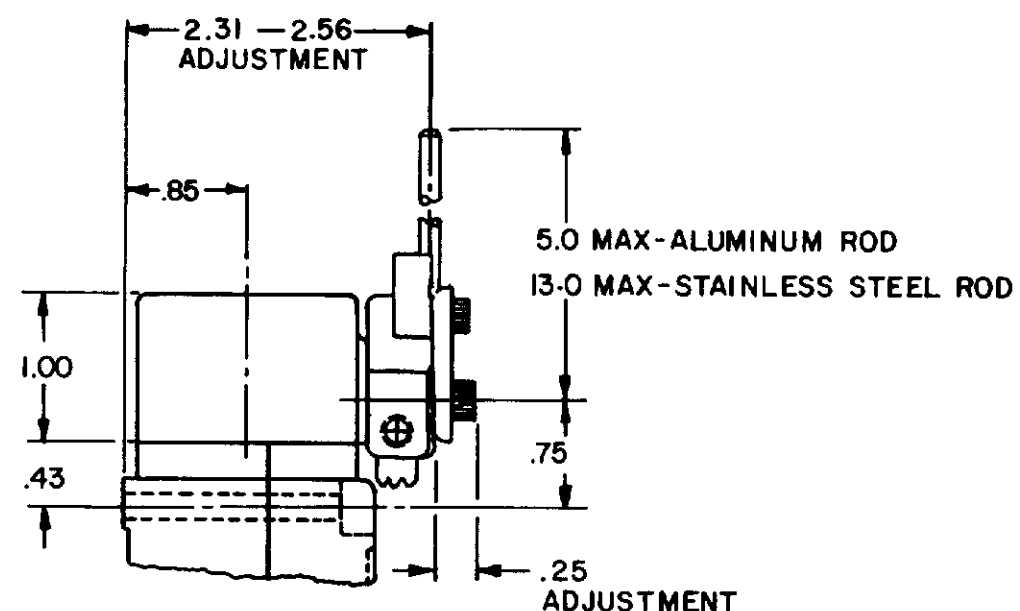
LSZ51 TYPE LEVERS



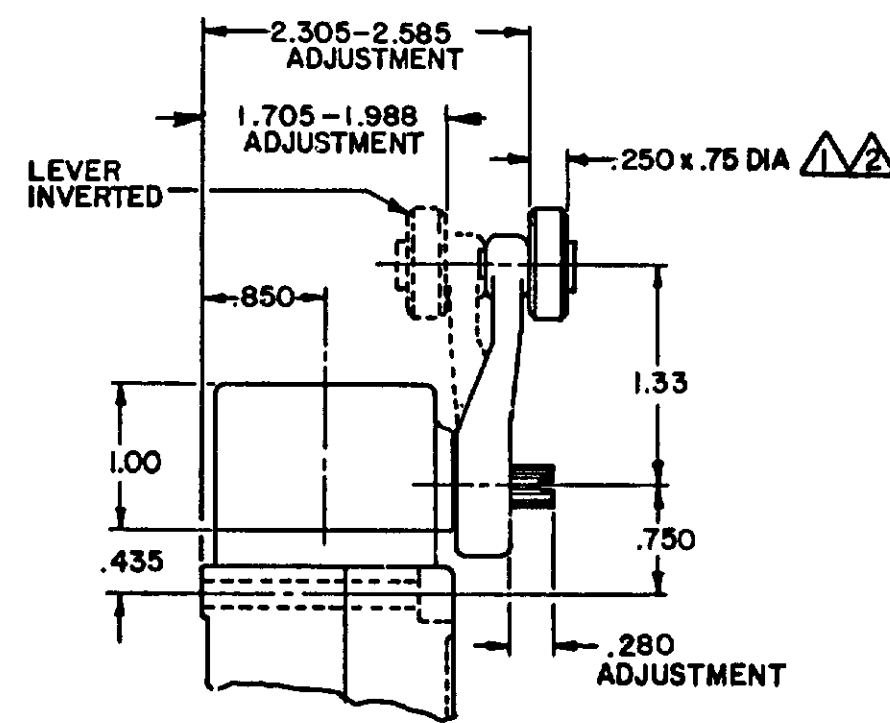
LSZ55 TYPE LEVERS



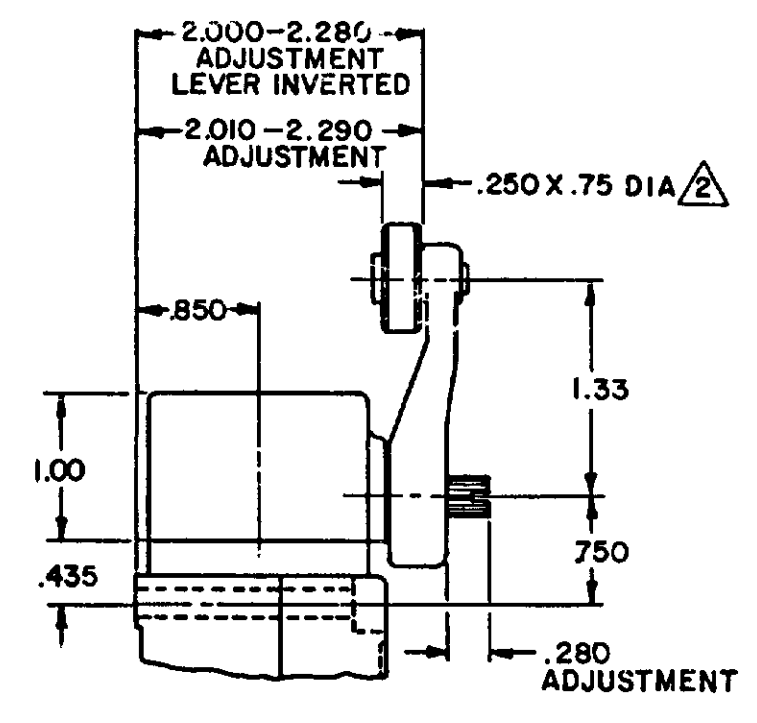
LSZ52 TYPE LEVER



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		
5	201748	C		
6	17NOV00	C		
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		

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SWITCH - ENCLOSED

CATALOG LISTING
LSA-LSW SERIES
CHART 1

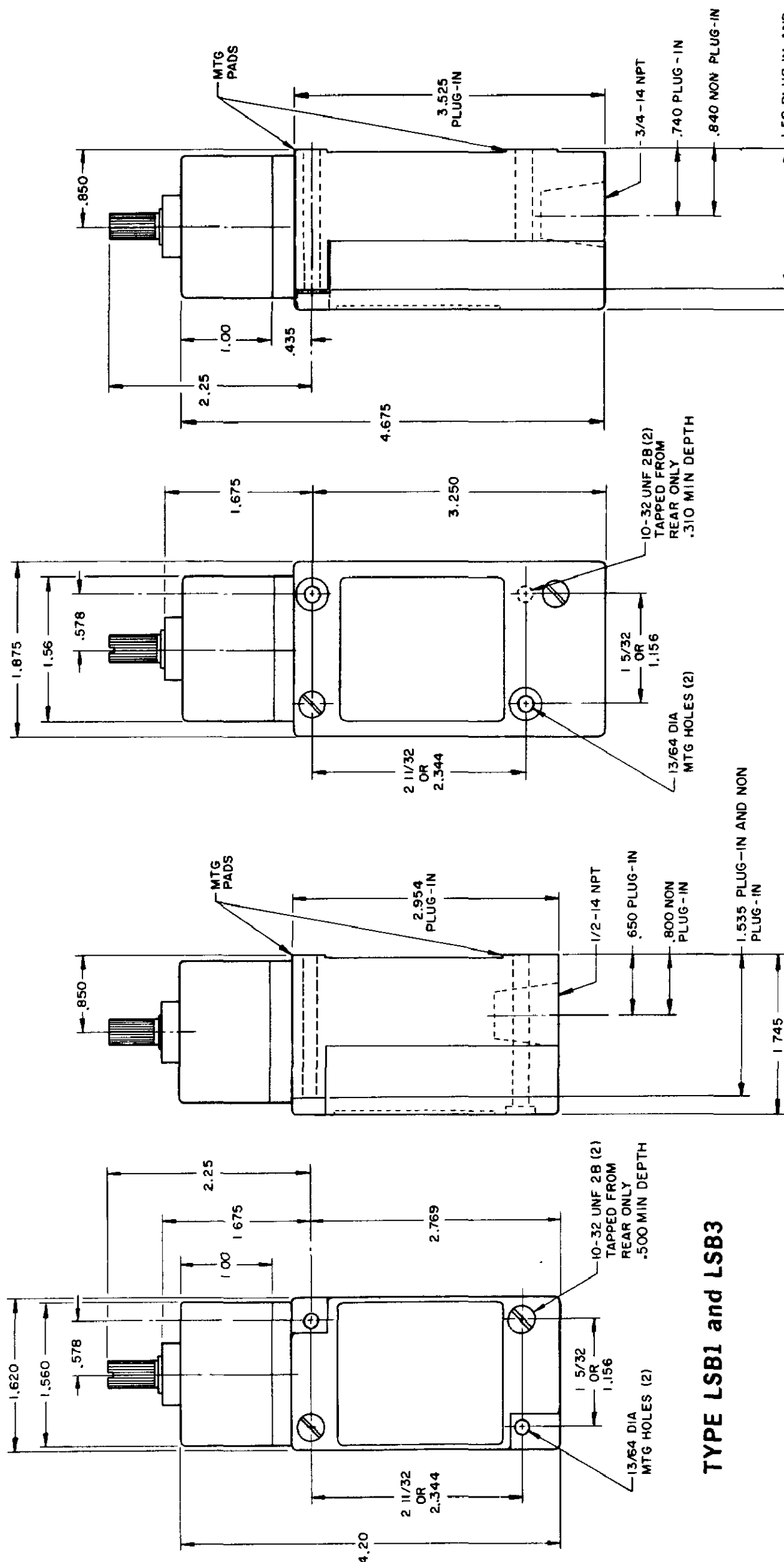
PAGE 2 OF 10

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 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			
	SINGLF 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

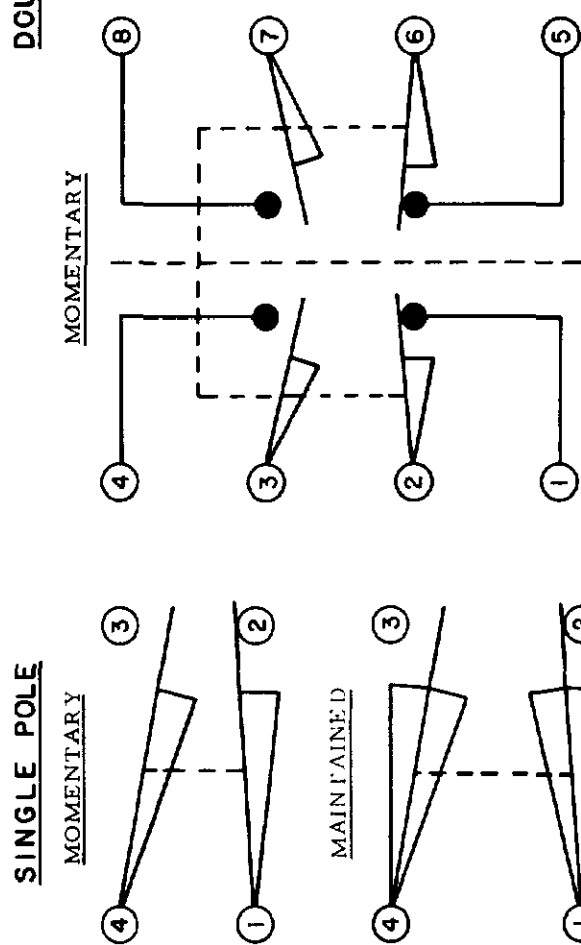
VOLTAGE		30 WATT
5 AC OR DC MIN		
600 AC		
240 DC		

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

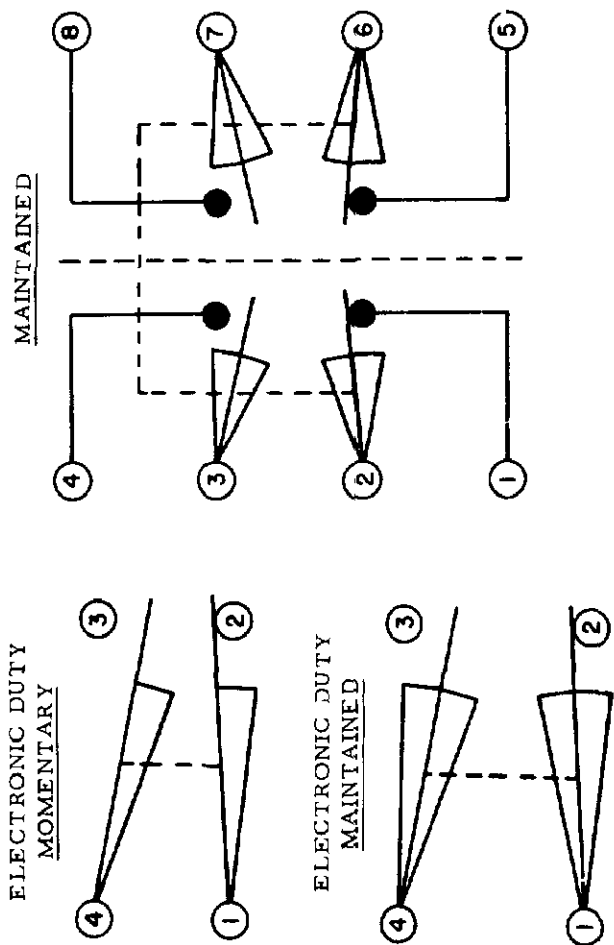
D. C. VOLTAGE	MAKE AND BREAK AMPS		RESISTIVE
	INDUCTIVE		
30	4.2		4.2
120	1.1		1.1
240	.55		.55

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

DOUBLE POLE



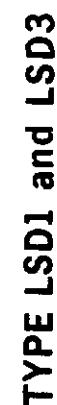
SINGLE POLE



NOTES
Δ DIFFERENTIAL TRAVEL ON ALL OPERATING
CHARACTERISTICS NOT APPLICABLE

SINGLE POLE

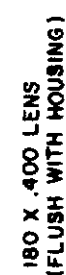
DOUBLE POLE



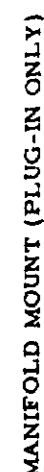
TYPE LSD2 and LSD4

***(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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SWITCH - ENCLOSED

CATALOG LISTING

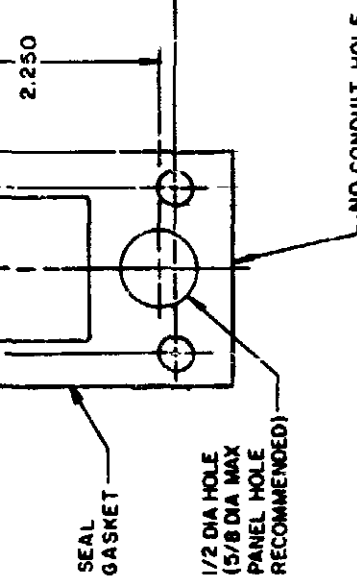
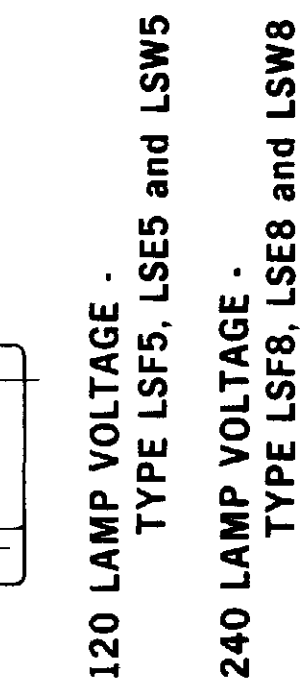
LSA-LSW SERIES

CHART 1

SCALE NONE

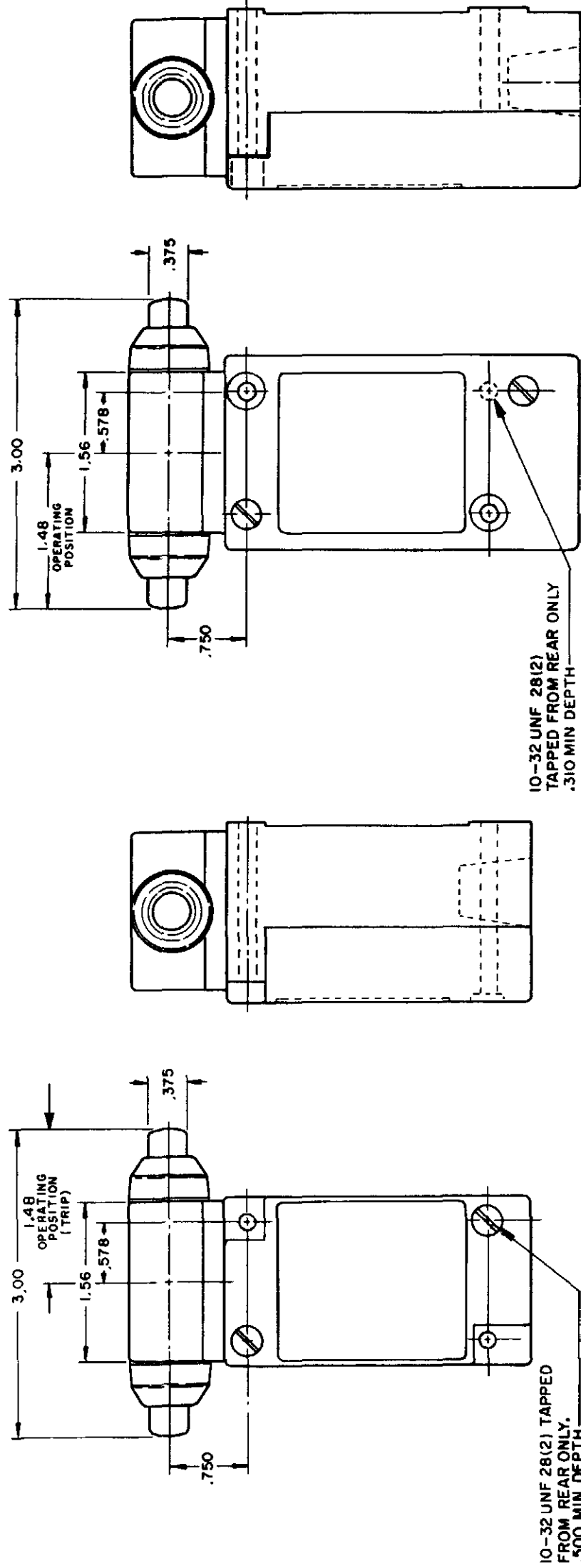
DO NOT SCALE PRINT

SINGLE POLE DOUBLE POLE



SCALE NONE

DO NOT SCALE PRINT



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		SEQUENCE BASIC	
CHARACTERISTICS	LSC PLUNGER	LSV ADJ PLUNGER	LSC LSV
PRETRAVEL (MAX)	.070	.070	1ST STEP .070
DIFFERENTIAL TRAVEL (MAX)	SINGLE POLE DOUBLE POLE .020	SINGLE POLE DOUBLE POLE .015	2ND STEP .016 MIN ADD'L .015 EACH STEP
OVERTRAVEL (MIN)	.190	.190	.170
OPERATING FORCE (MAX)	4 LBS	4 LBS	4 LBS
OPERATING POINT	1.805 ± .030	2.085 MIN 2.335 MAX	1ST STEP 1.815±.030 2.210±.040 2.095 MIN / 2.345 MAX
FULL OVERTRAVEL FORCE (MAX)	7 LBS	7 LBS	7 LBS
SIDE PLUNGER TYPES			
OPERATING POINT GIVEN IN RELATION TO CENTER OF HEAD		SEQUENCE BASIC	
CHARACTERISTICS	LSE PLUNGER	LSG PLUNGER MAINTAINED	LSE LSF LSW
PRETRAVEL (MAX)	.100	.100	1ST STEP .100
DIFFERENTIAL TRAVEL (MAX)	.045	.045	2ND STEP .020 MIN ADD'L .025 EACH STEP
OVERTRAVEL (MIN)	.190	.190	.170
OPERATING FORCE (MAX)	6 LBS	6 LBS	6 LBS
OPERATING POINT	1.300 ± .030	ADJUSTABLE FROM 1.615 MIN 1.865 MAX	1ST STEP 1.310±.030 1.745±.040 1.625 MIN / 1.875 MAX
FULL OVERTRAVEL FORCE (MAX)	6 LBS	6 LBS	6 LBS

REVISIONS	BS	10 JUL 07	10031956
	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	
11 AUG 04			

ISSUE	12	PSR	10 JUL 07	RELEASE NO	CO-78498	REPLACES	LSA-LSW SERIES
LSA-LSW SERIES CHART 1							
PAGE 7 OF 10							

LSA-LSW SERIES CHART 1							
PAGE 7 OF 10							

MAAM 15 JUN 94
DRAWN

11 AUG 04
CHECK

11 AUG 04
CHECK

11 AUG 04
CHECK

11 AUG 04
CHECK

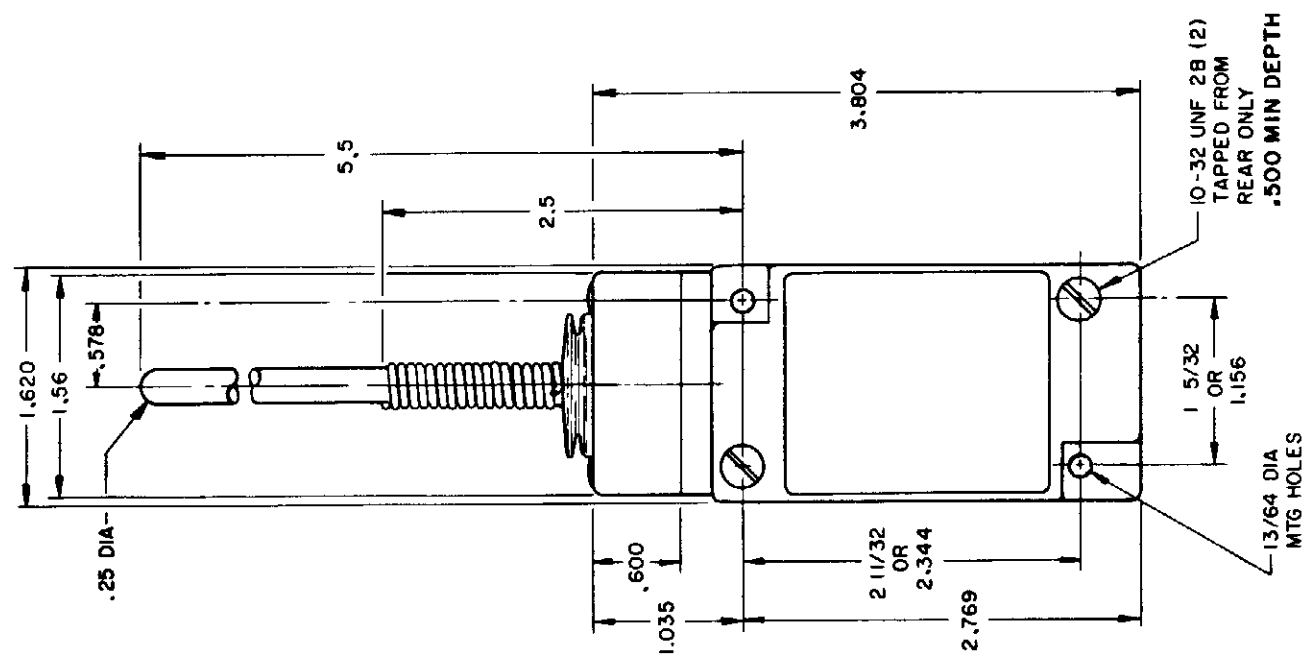
11 AUG 04
CHECK

11 AUG 04
CHECK

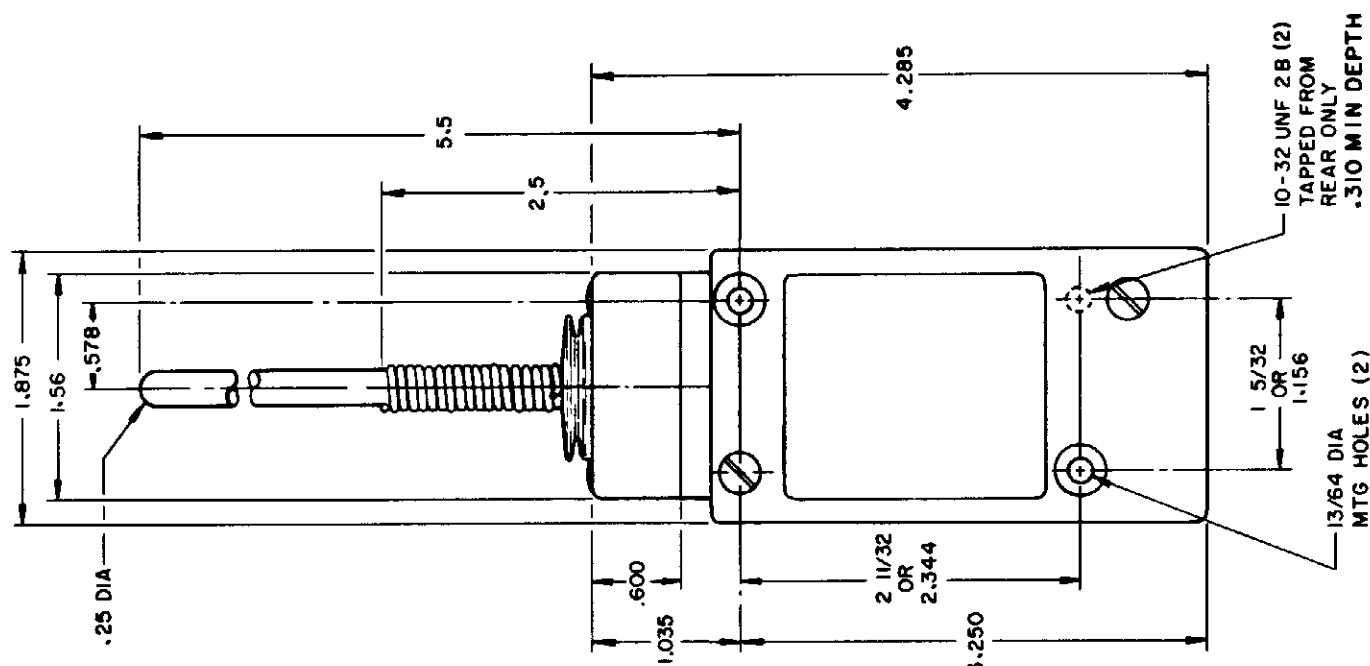
WOBBLE STICK

SINGLE POLE

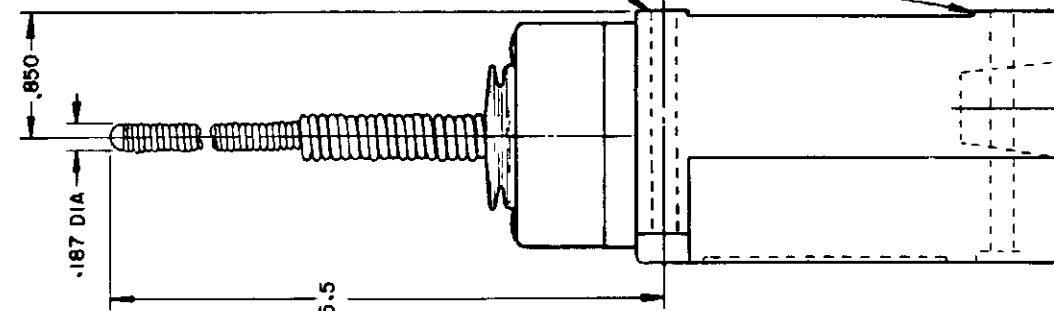
DOUBLE POLE



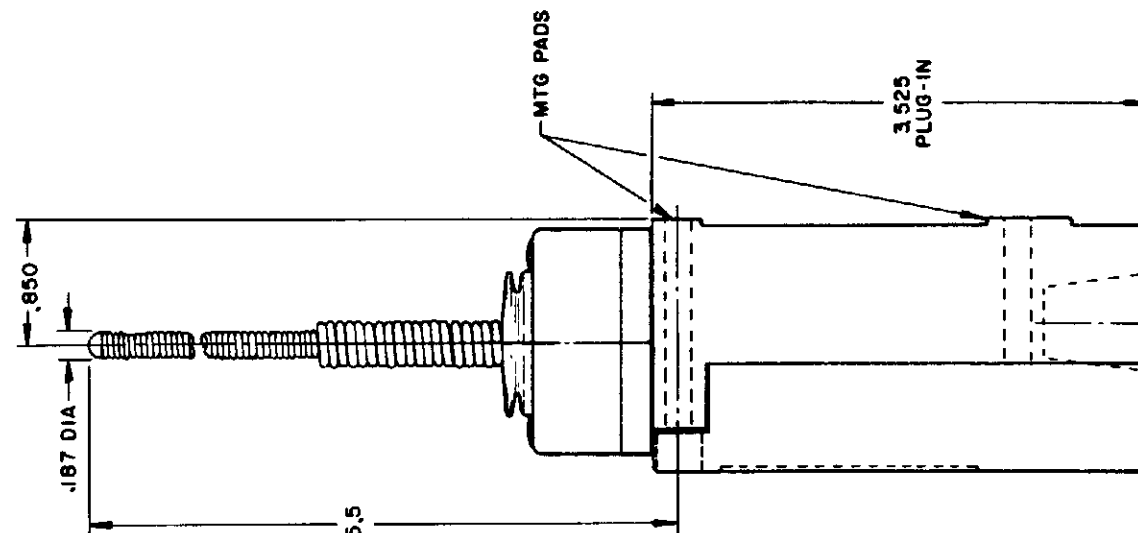
**PLASTIC EXTENSION
TYPE 7A ACTUATOR**
TYPE LSJ1 AND LSJ3



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

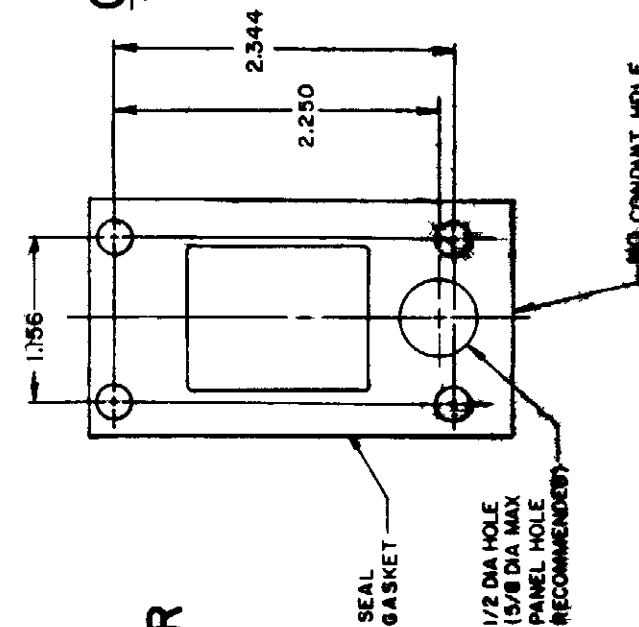


**REPLACEMENT ACTUATOR
LSZ-4009**



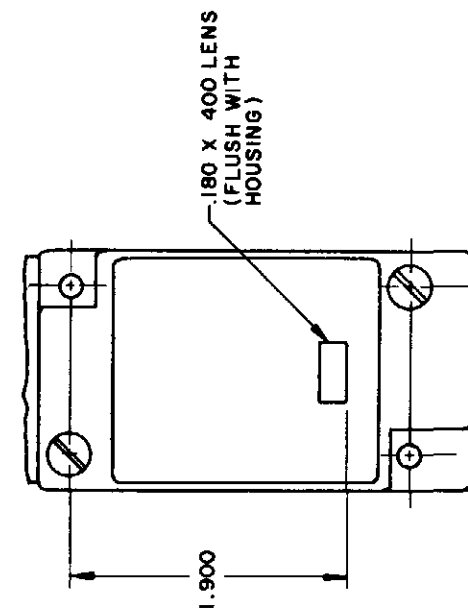
MANIFOLD MOUNT (PLUG-IN ONLY)
SINGLE POLE AND DOUBLE POLE
TYPE LSA THROUGH LSW SERIES

**CABLE EXTENSION
TYPE 7N ACTUATOR**



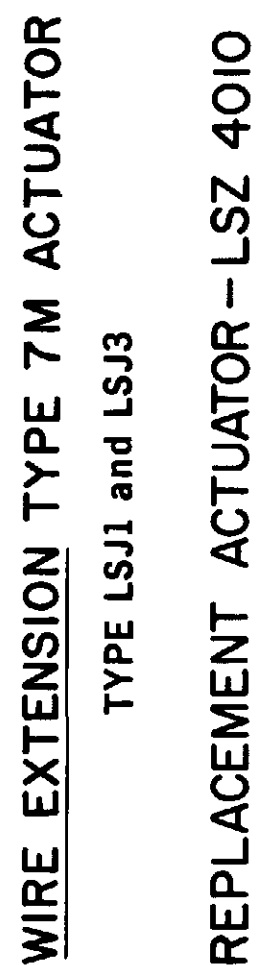
**CABLE EXTENSION
TYPE 7N ACTUATOR**

SINGLE POLE PLUG-IN ONLY
WITH INDICATOR LAMP

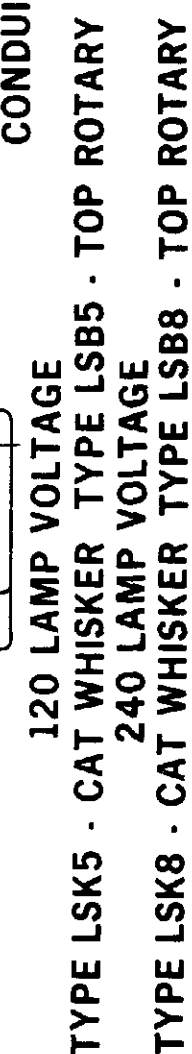


120 LAMP VOLTAGE TYPE LSJ5
240 LAMP VOLTAGE TYPE LSJ8
24 LED VOLTAGE TYPE LSJ9

**REPLACEMENT ACTUATOR
LSZ-4011**



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

	CAT. WHISKER	WOBBLE STICK					
	5 1/2" COIL	5 1/2" WIRE	1/4" WIRE	RDD.	CABLE	WIRE	
PRETRAVEL (APPROX) IN. RADIUS	2	2	4.5	1.0	1.5	4.0	
OPERATING FORCE-OZ (MAX)	7.0	5.0	3.0	10.0	7.0	5.0	

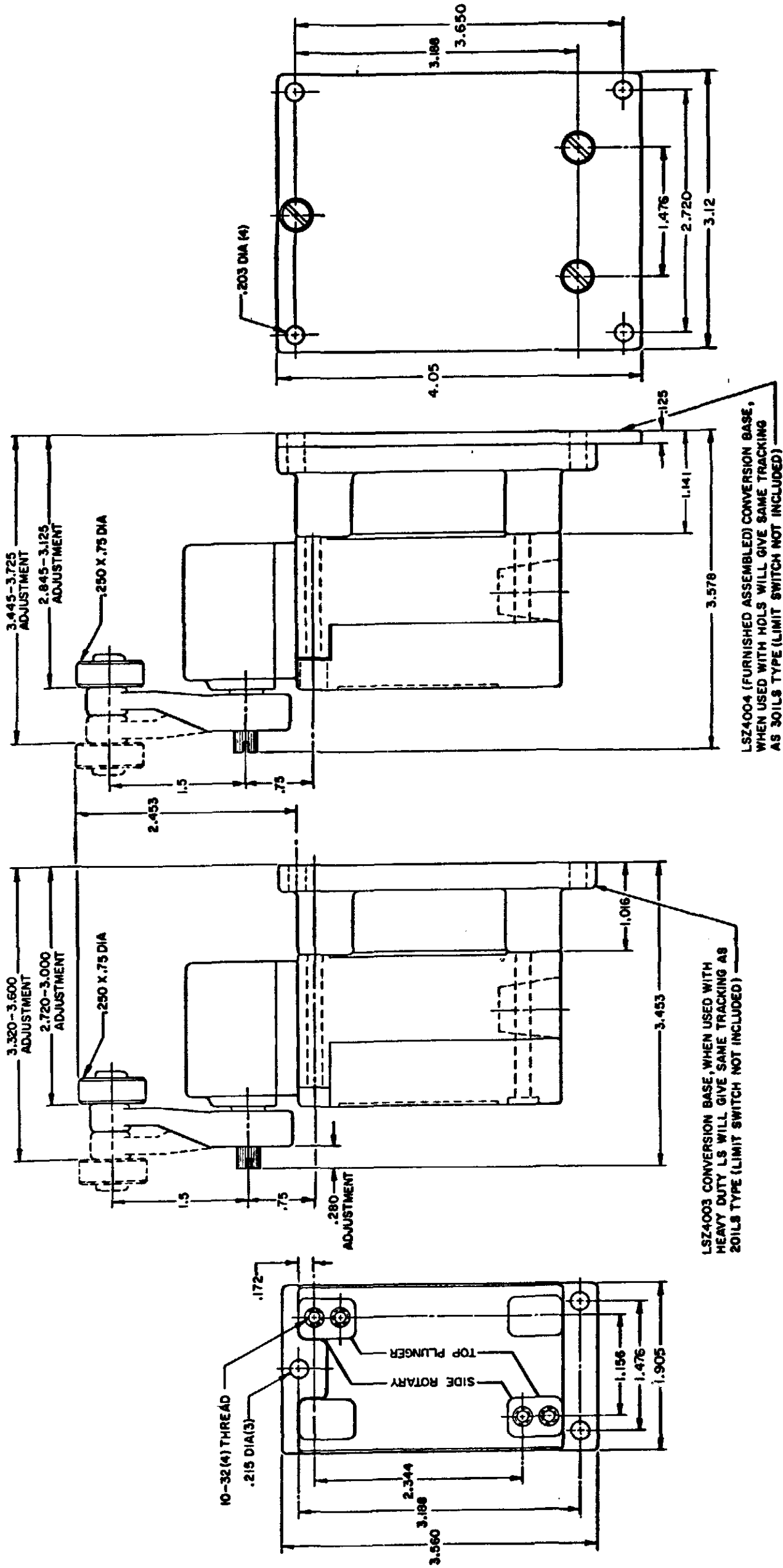
REV	DATE	BY	CHKD	DESCRIPTION
L	0031956			BS
B	10JUL07			201004
C	201748			201748
D	202198			202198
E	204871			204871
F	206581			206581
G	206763			206763
H	207179			207179
J	207474			207474
K	0006871			0006871

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

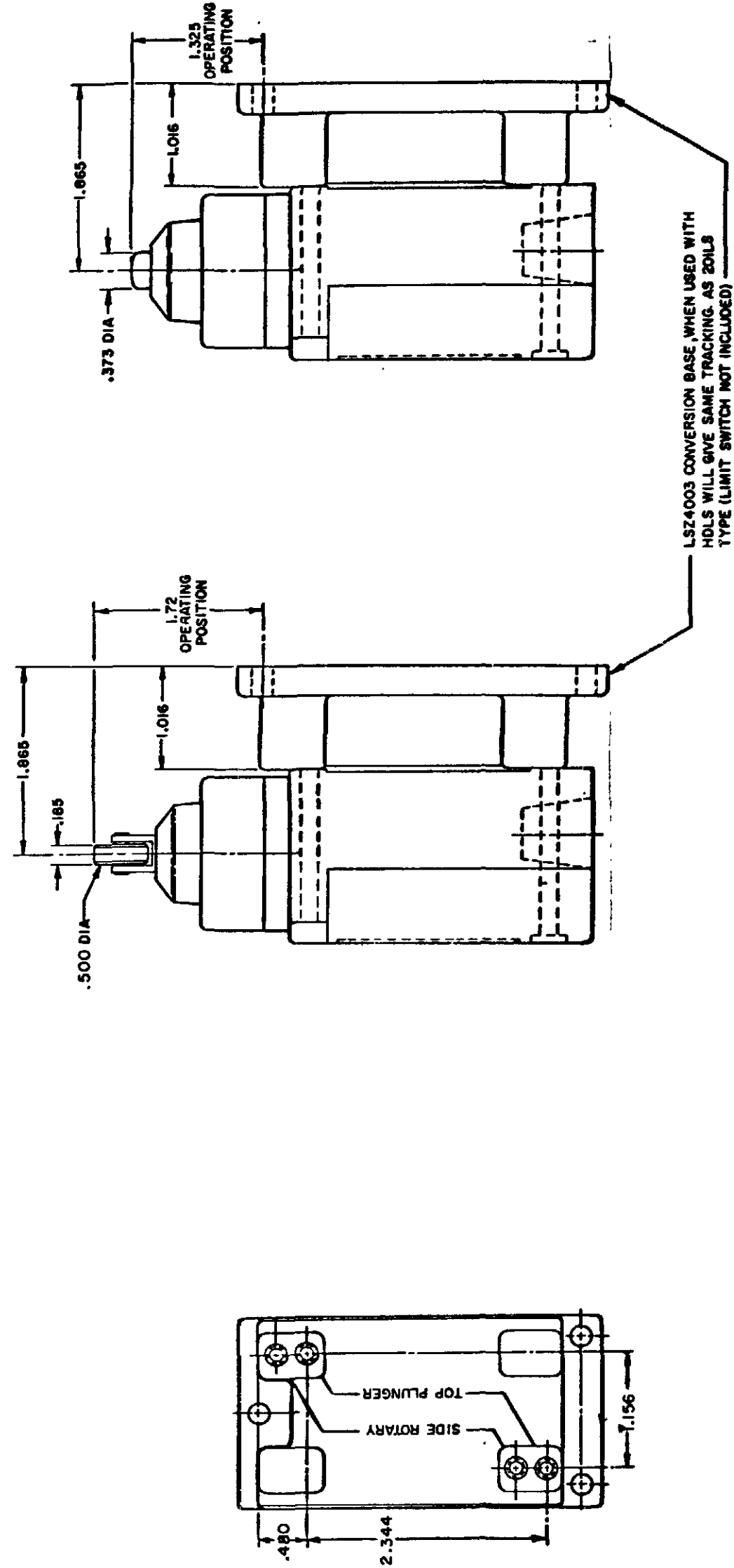
SINGLE POLE
(SIDE ROTARY)
LSZ 4003

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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SWITCH - ENCLOSED

CATALOG LISTING
LSA-LSW SERIES
CHART 1

FED. MFG. CODE 91929

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<http://moschip.ru/get-element>

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

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