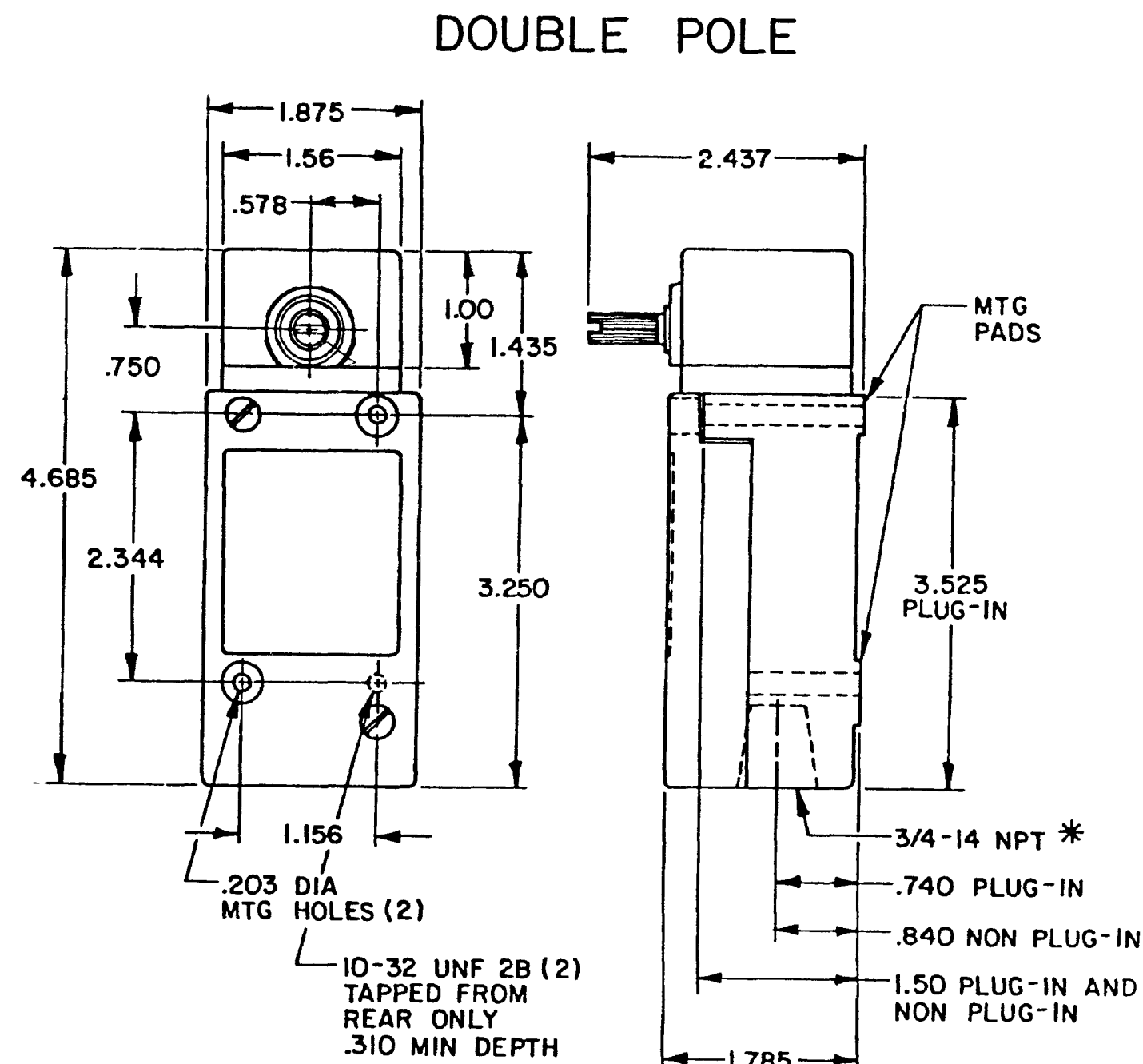


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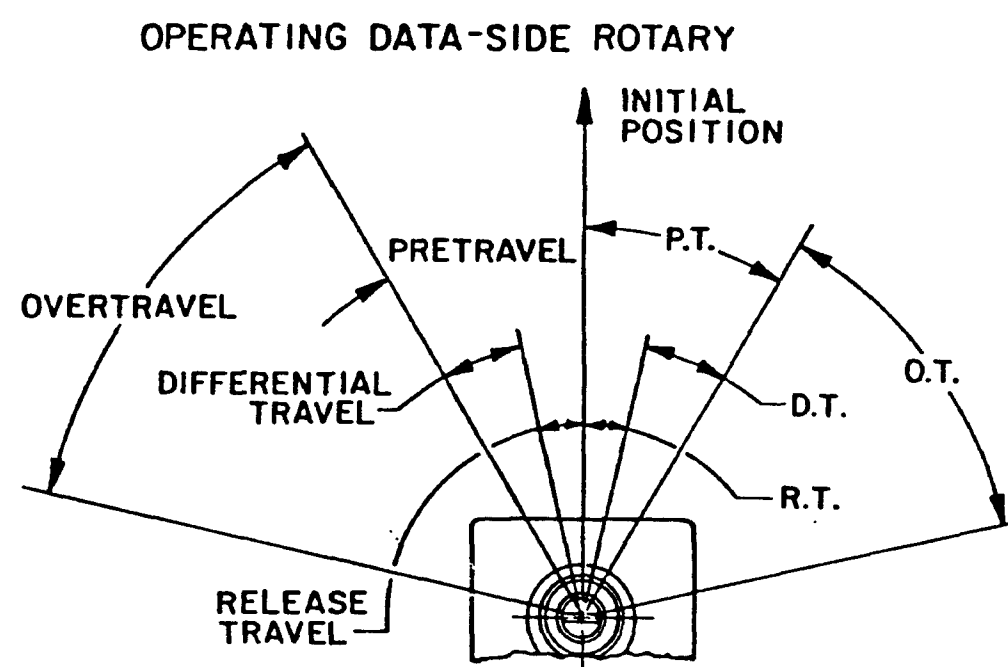
TYPE: LSA2, LSH2, LSM2, LSN2, LSP2, LSR2
LSA4, LSH4, LSM4, LSN4, LSP4, LSR4

SINGLE POLE PLUG-IN ONLY
WITH INDICATOR LAMP

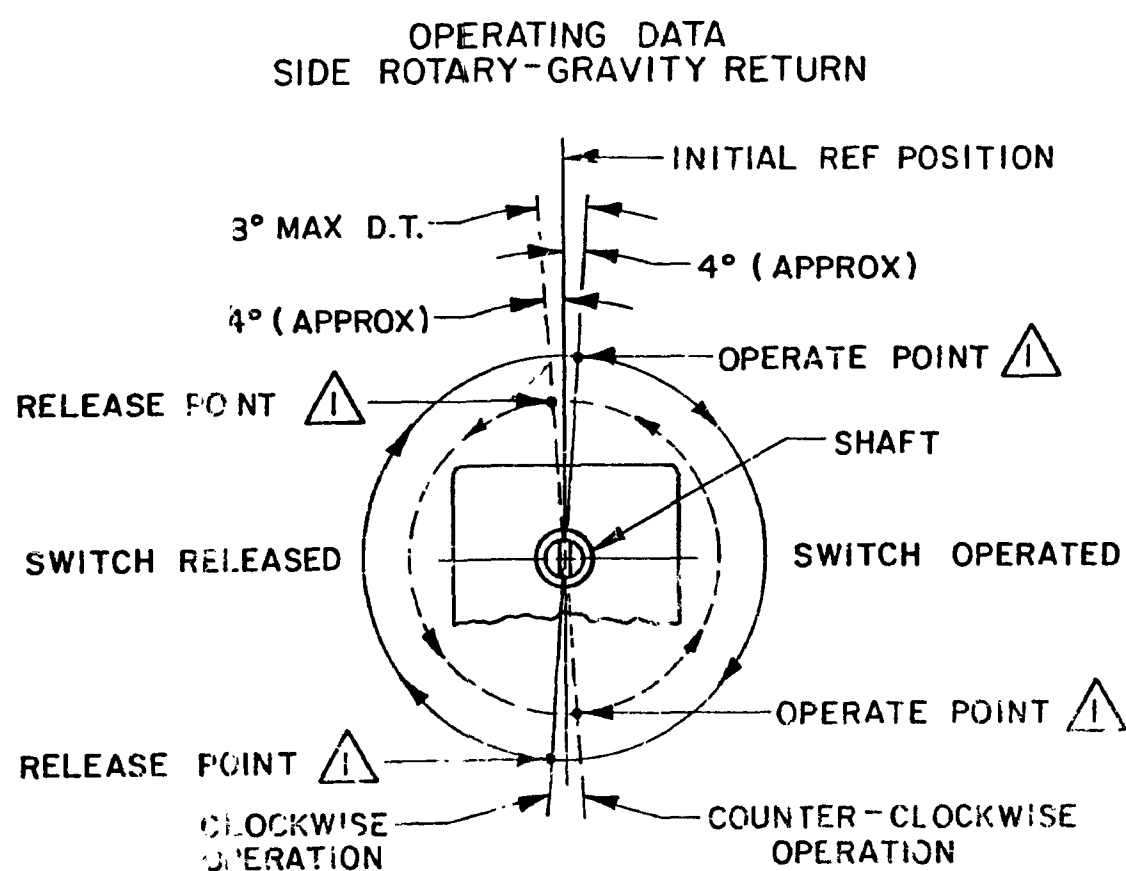
1.900

.180 X .400 LENS
(FLUSH WITH HOUSING)

240 LAMP VOLTAGE -
TYPE LSA8, LSH8, LSN8, LSP8, LSR8

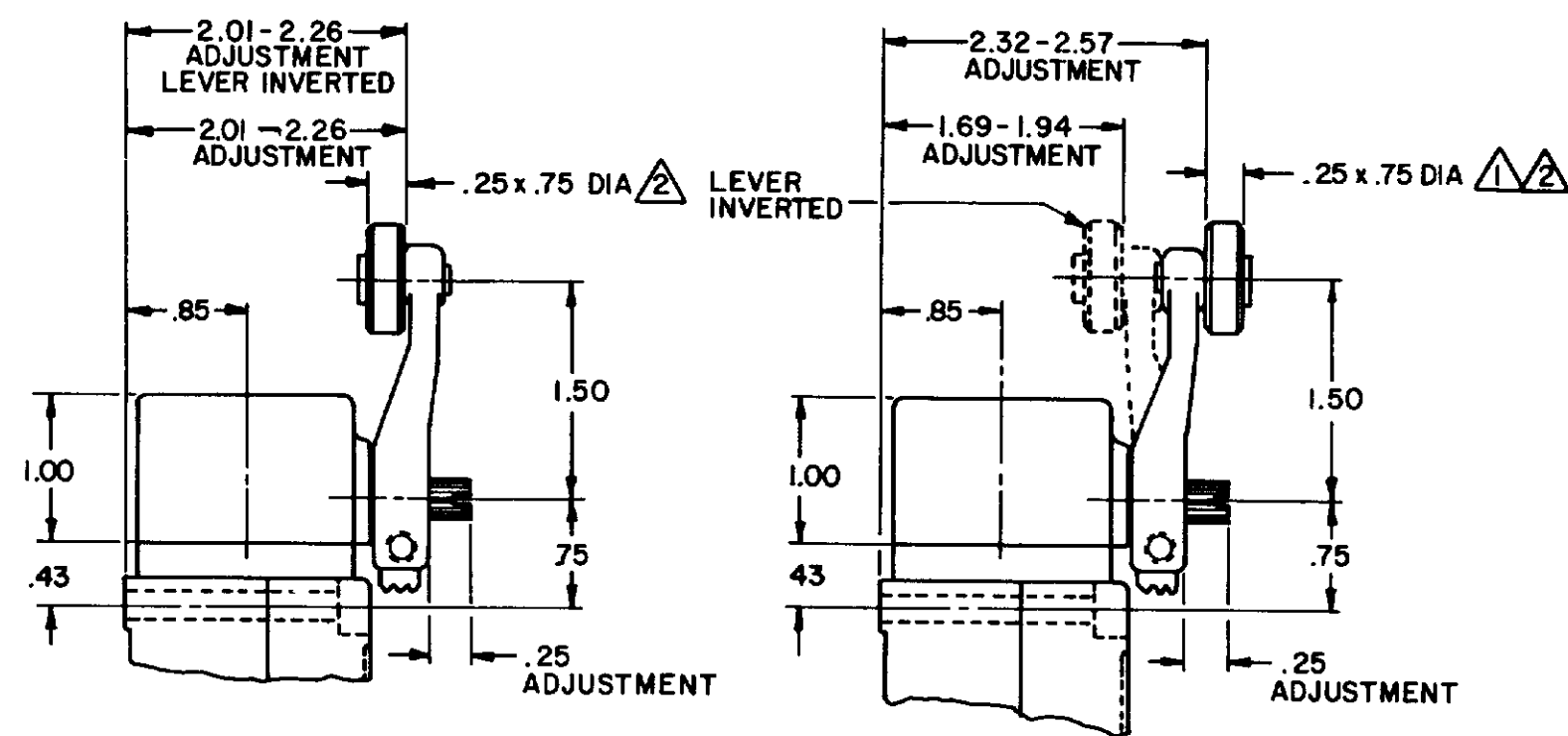


MANIFOLD MOUNT (PLUG-IN ONLY)
SINGLE POLE AND DOUBLE POLE
TYPE LSA THROUGH LSW SERIES

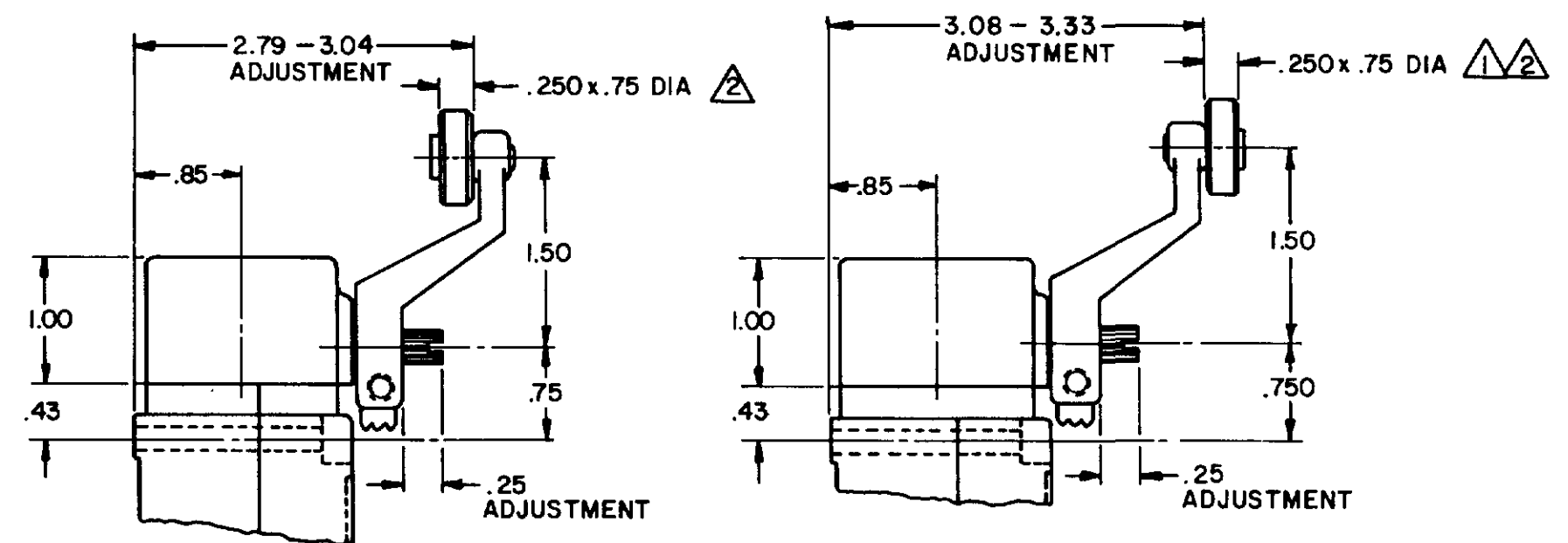


NOTE
 OPERATE AND RELEASE POINTS WILL EXCHANGE LOCATIONS IF SHAFT IS ROTATED 180°

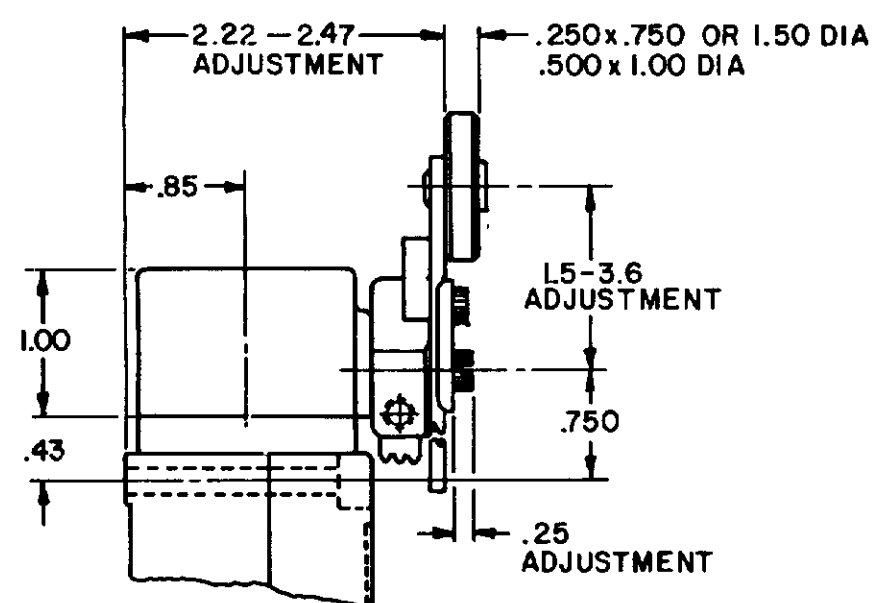
SIDE ROTARY CAM TRACKING



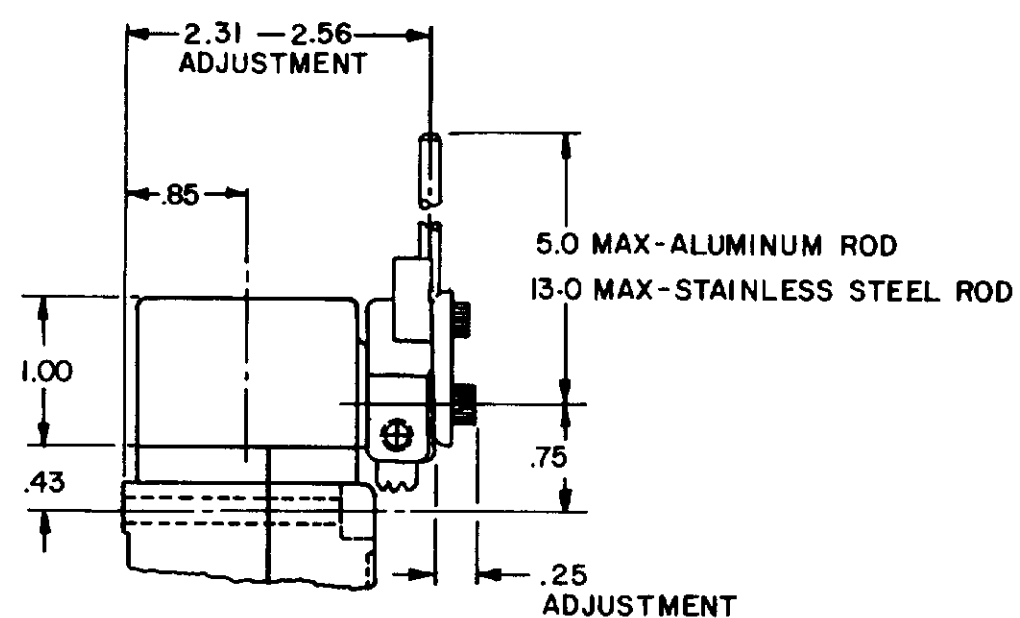
LSZ51 TYPE LEVERS



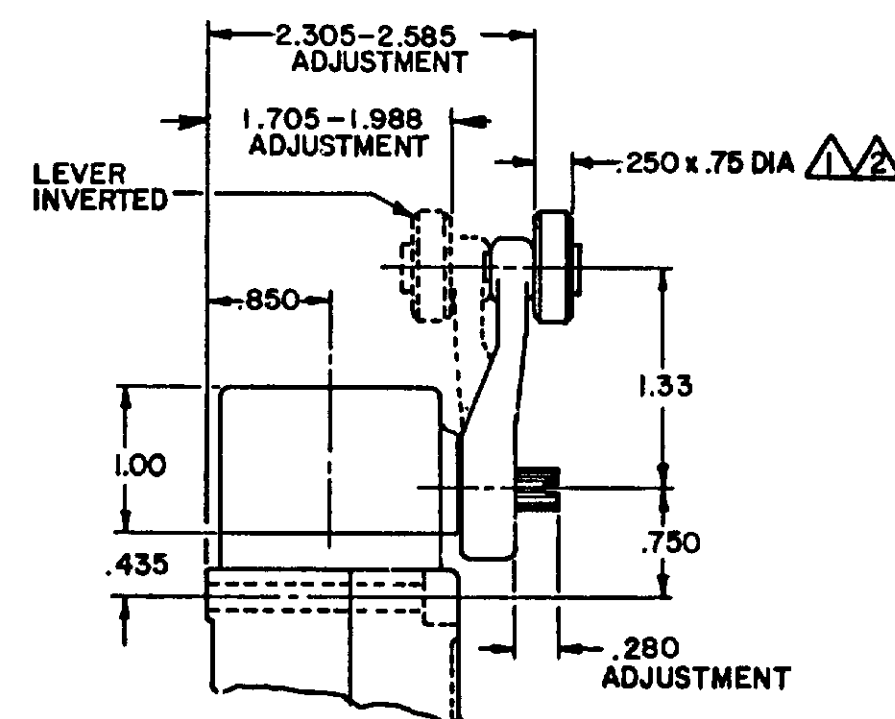
LSZ55 TYPE LEVERS



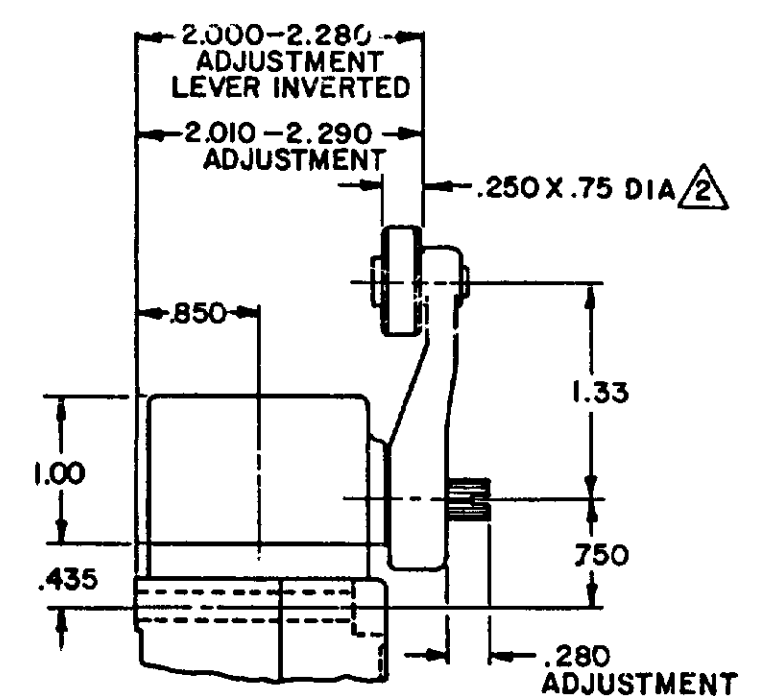
LSZ52 TYPE LEVER



LSZ54 TYPE LEVER



OPEN MOUNTED ROLLER



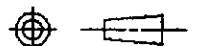
CLOSED MOUNTED ROLLER

LSZ59 TYPE LEVERS

NOTES

- 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

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 (1.000) $\pm .005$

WEIGHT

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

PAGE 2 OF 10

CATALOG LISTING

LSA-LSW SERIES
CHART 1

MICRO SWITCH
a Honeywell Division

FFD MEG CODE 91929

SWITCH - ENCLOSED

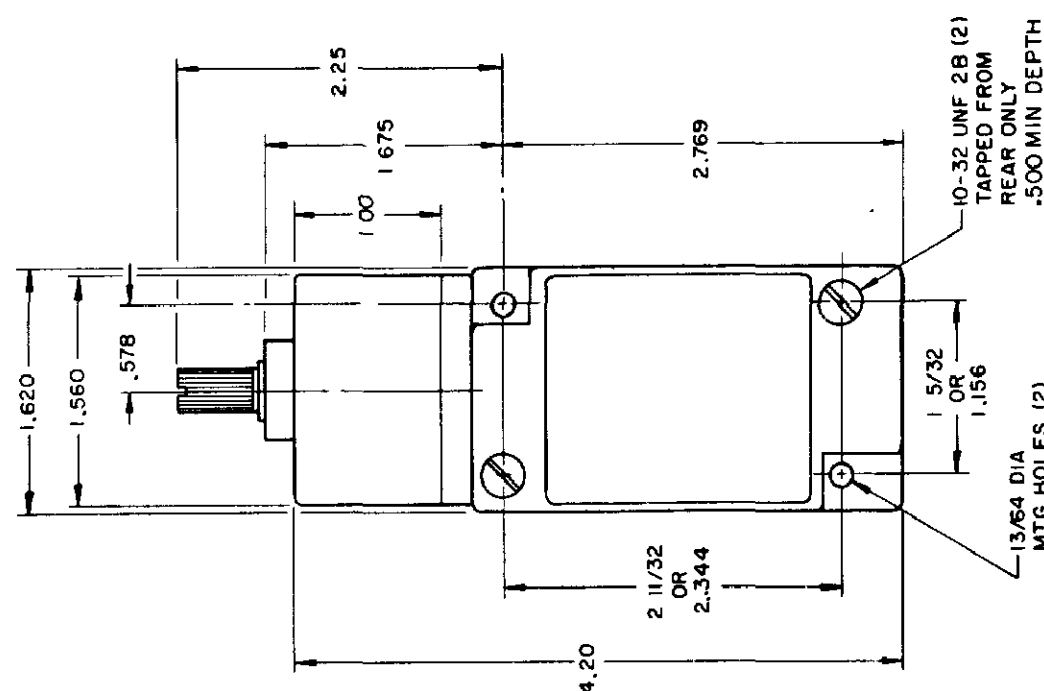
CATALOG LISTING

A-LSW SERIES
CHART 1

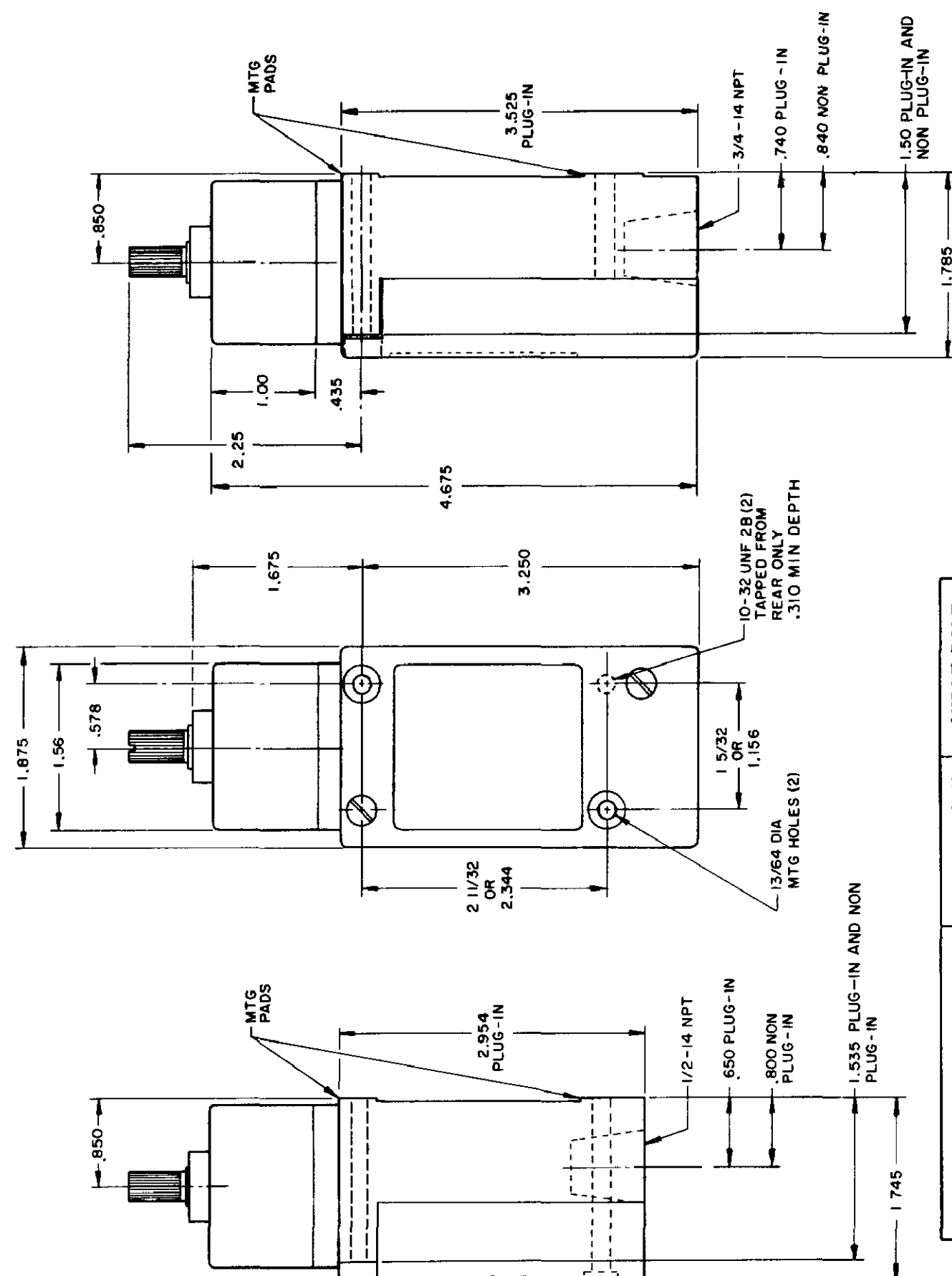
ISSUE	12	M	LSA-LSW	SERIES CHART 1	CATALOG LISTING																						
					PAGE 2 OF 10																						
PSR	10JUL07	RELEASE NO	CO-78498	REPLACES	LSA-LSW SERIES																						
CHECK	11AUG04	AK	11JUL 94	JAF	15 JUN 94																						
<table border="1"> <thead> <tr> <th colspan="2">REVISONS</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>0031956 BS 10JUL07</td> </tr> <tr> <td>B</td> <td>2010004 10AUG00</td> </tr> <tr> <td>C</td> <td>2011748 CST 17NOV00</td> </tr> <tr> <td>D</td> <td>202198 CST 23JAN01</td> </tr> <tr> <td>E</td> <td>204871 G L W FEB 02</td> </tr> <tr> <td>F</td> <td>206581 GTH 14OCT02</td> </tr> <tr> <td>G</td> <td>206763 31 OCT 02</td> </tr> <tr> <td>H</td> <td>207179 GTH 14 JAN 03</td> </tr> <tr> <td>J</td> <td>207474 TSM 18FEB03</td> </tr> <tr> <td>K</td> <td>2060871 NR 11AUG01</td> </tr> </tbody> </table>						REVISONS		L	0031956 BS 10JUL07	B	2010004 10AUG00	C	2011748 CST 17NOV00	D	202198 CST 23JAN01	E	204871 G L W FEB 02	F	206581 GTH 14OCT02	G	206763 31 OCT 02	H	207179 GTH 14 JAN 03	J	207474 TSM 18FEB03	K	2060871 NR 11AUG01
REVISONS																											
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J	207474 TSM 18FEB03																										
K	2060871 NR 11AUG01																										
RASTER	DRAWN	MAM	15 JUN 94																								

TOP ROTARY

SINGLE POLE



TYPE LSB1 and LSB3



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

10 AMP CONT.	A. C. VOLTAGE	AMPS AT 35 POWER FACTOR					
		SINGLF POLE		DOUBLE POLE		BREAK	
		MAKE	BREAK	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

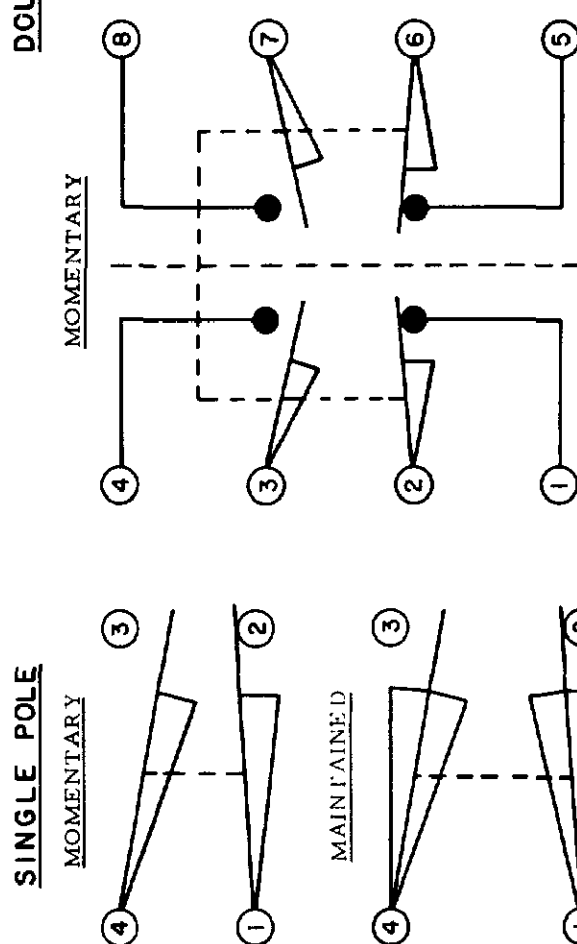
VOLTAGE	
5 AC OR DC MIN	01 AMP MIN
600 AC	720 VA
240 DC	30 WATT

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

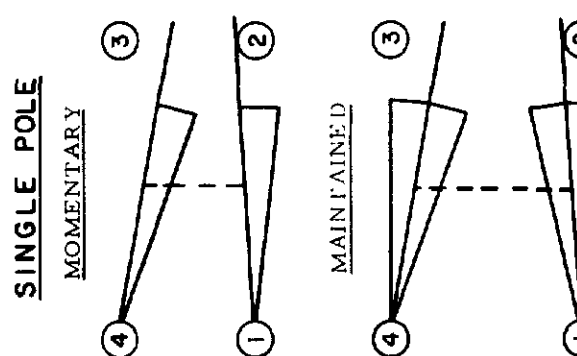
D.C. VOLTAGE	MAKE AND BREAK AMPS	
	INDUCTIVE	RESISTIVE
30	4.2	4.2
120	1.1	1.1
240	.55	.55

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

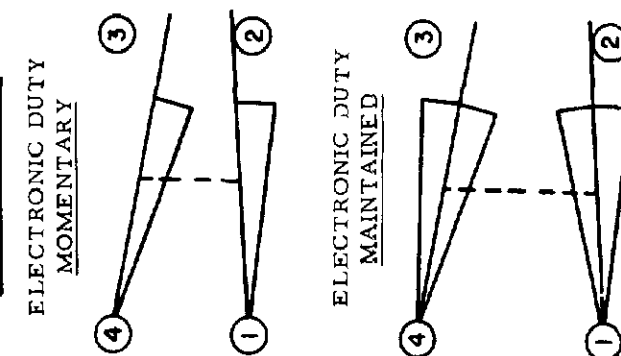
DOUBLE POLE



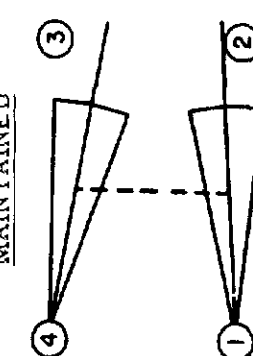
SINGLE POLE



SINGLE POLE



ELECTRONIC DUTY

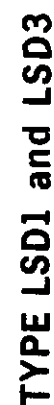


DIRECT ACTING



SINGLE POLE

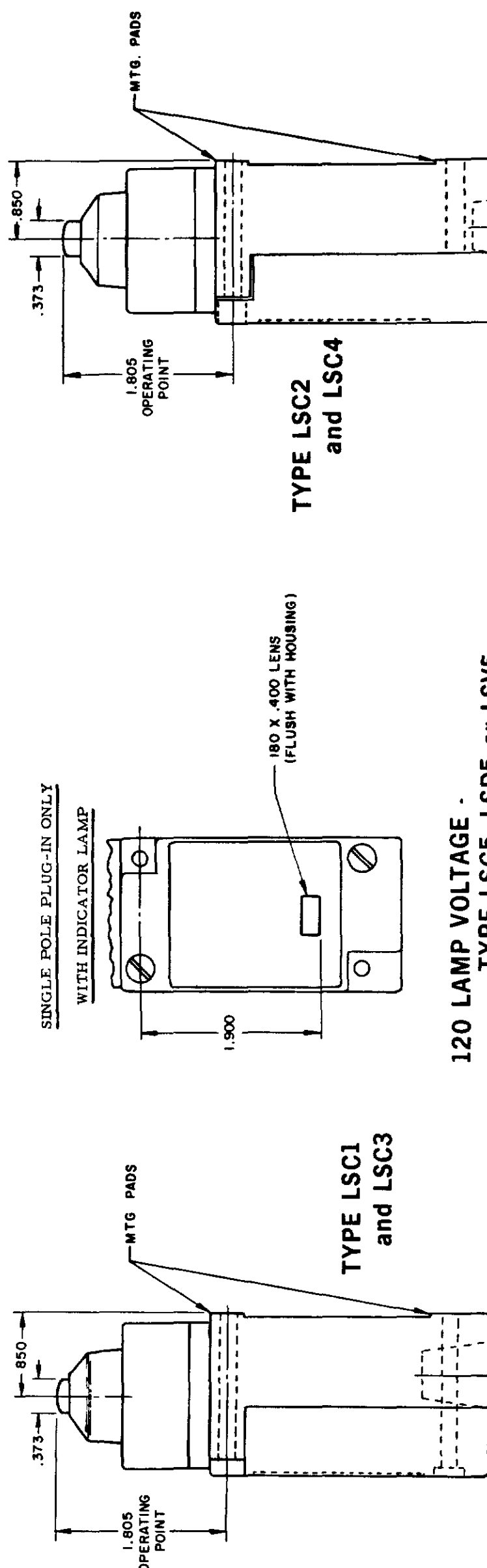
DOUBLE POLE



TYPE LSD2 and LSD4

***(LSD6 and LSD7**

have 1/2 - 14 NPT CONDUIT HOLE)

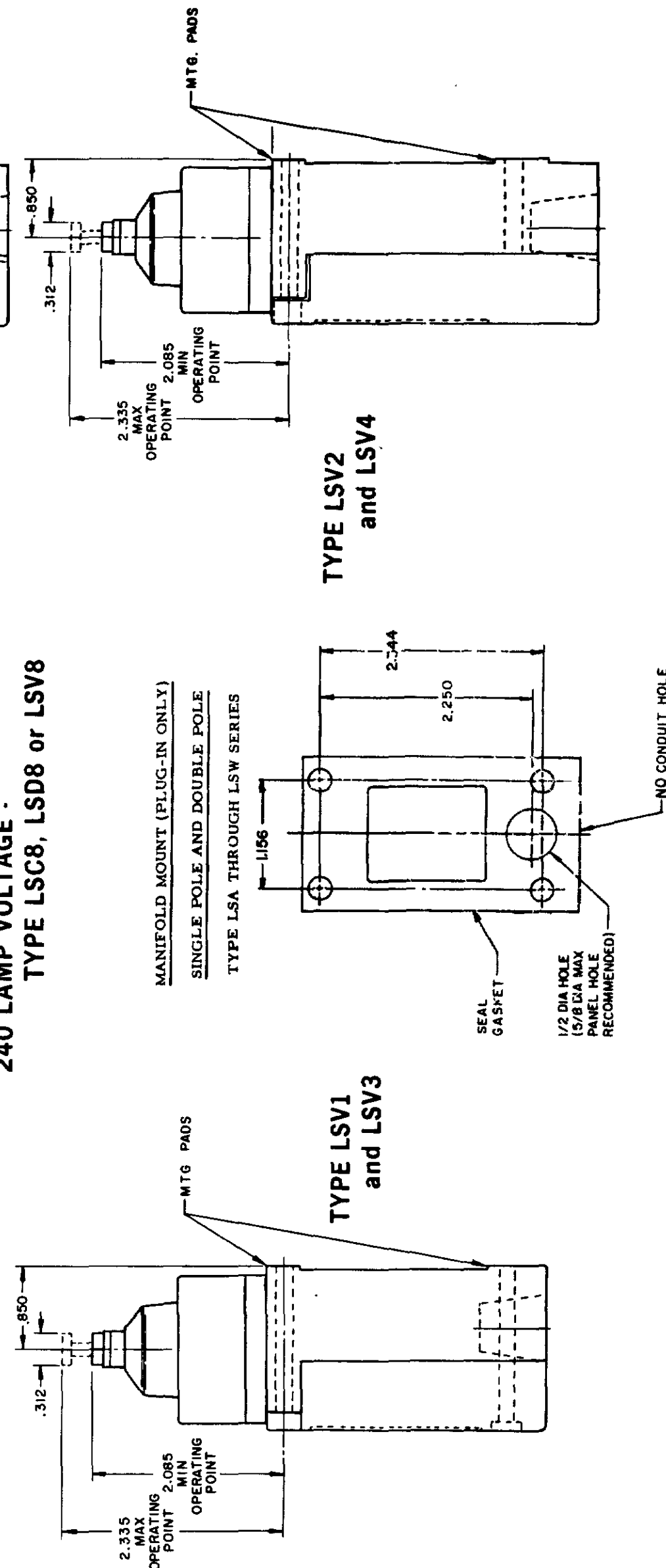


TYPE LSC1 and LSC3

**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**

PAGE 4 OF 10

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MICRO SWITCH
a Honeywell Division

FED MFG CODE 91929

SWITCH - ENCLOSED

CATALOG LISTING

LSA-LSW SERIES
CHART 1

SCALE NONE

DO NOT SCALE PRINT

REV	DATE	BY	CHK	APP
L	0031956			
B	10 JUL 97			
C	10 AUG 00			
D	201748			
E	17 NOV 00			
F	202198			
G	204871			
H	206581			
I	207179			
J	207474			
K	0006871			
L	11 AUG 04			

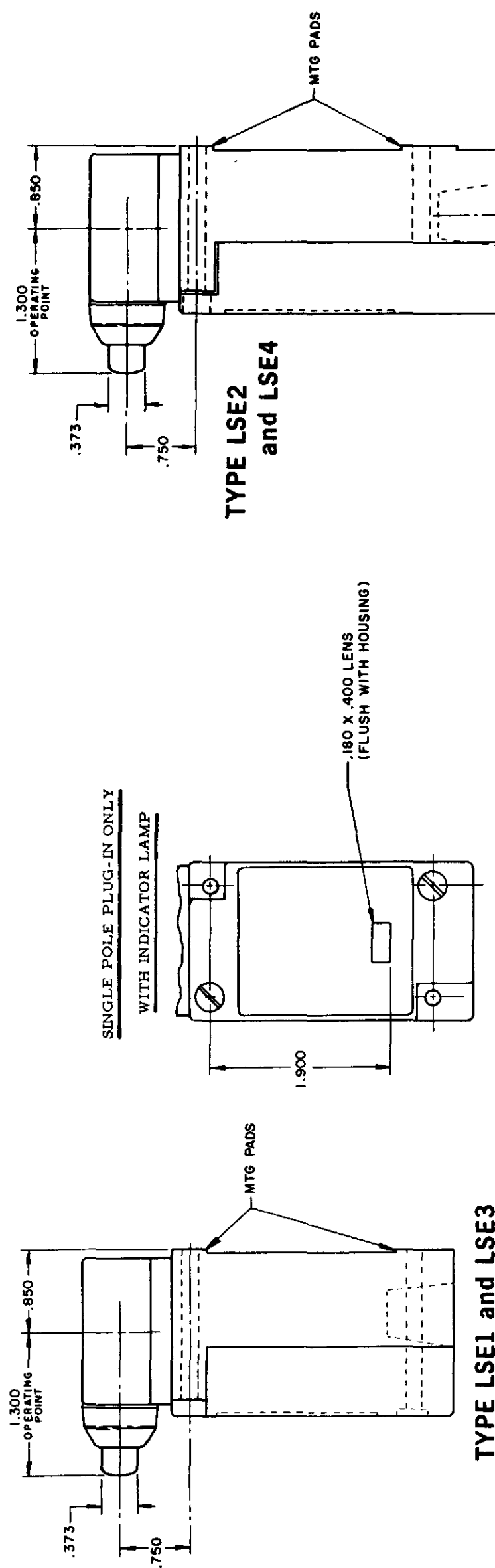
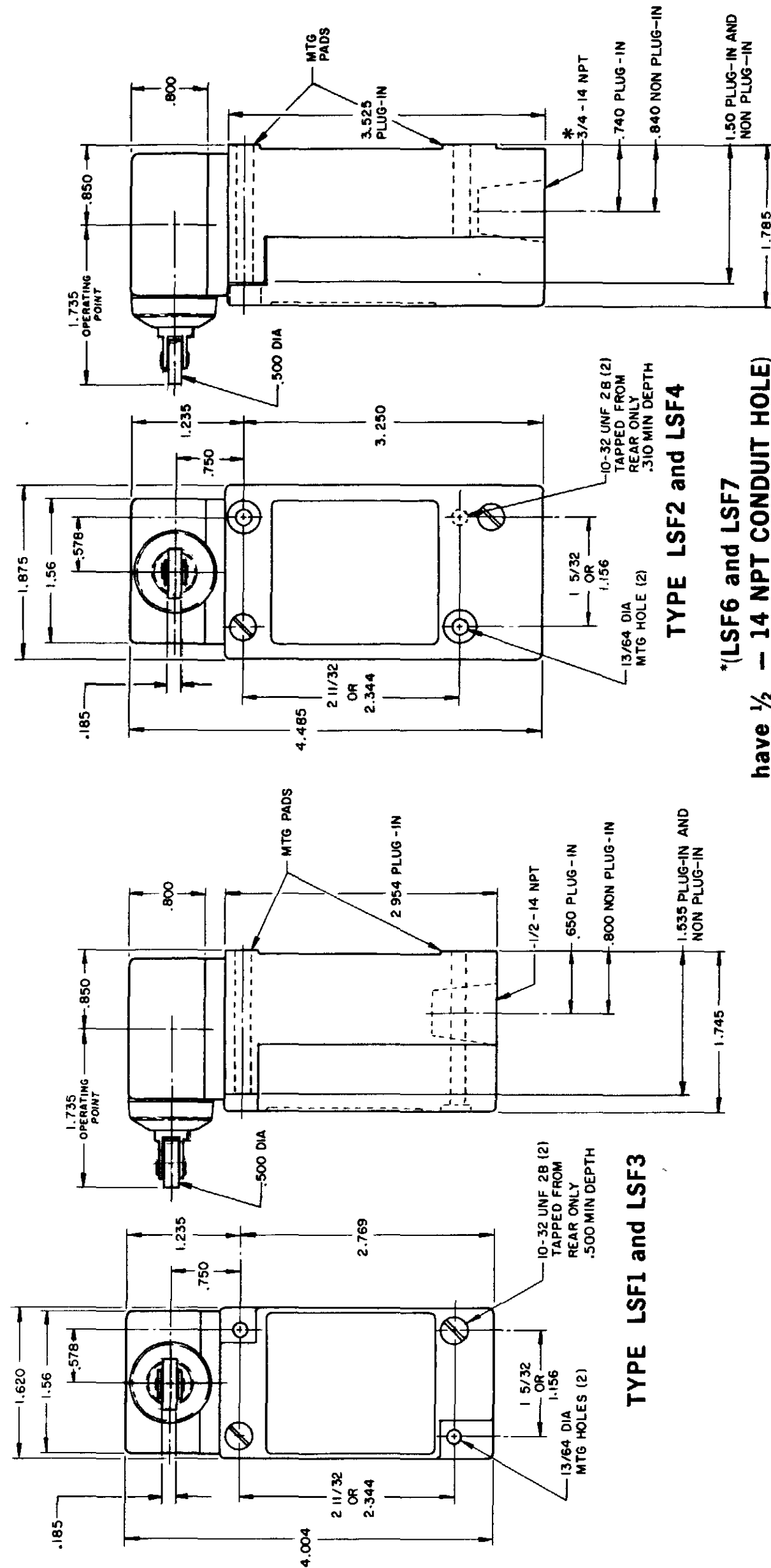
ISSUE	CATALOG LISTING	RELEASE NO	CO-78498	REPLACES	LSA-LSW SERIES
12	LSA-LSW SERIES CHART 1	10JUL07			
PSR		CHECK			
AK	11AUG04	CHECK			
AF	11 JUL 94	CHECK			
AF	15 JUN 94	CHECK			

RASTER
DRAWN
MAM

SIDE PLUNGER TYPE

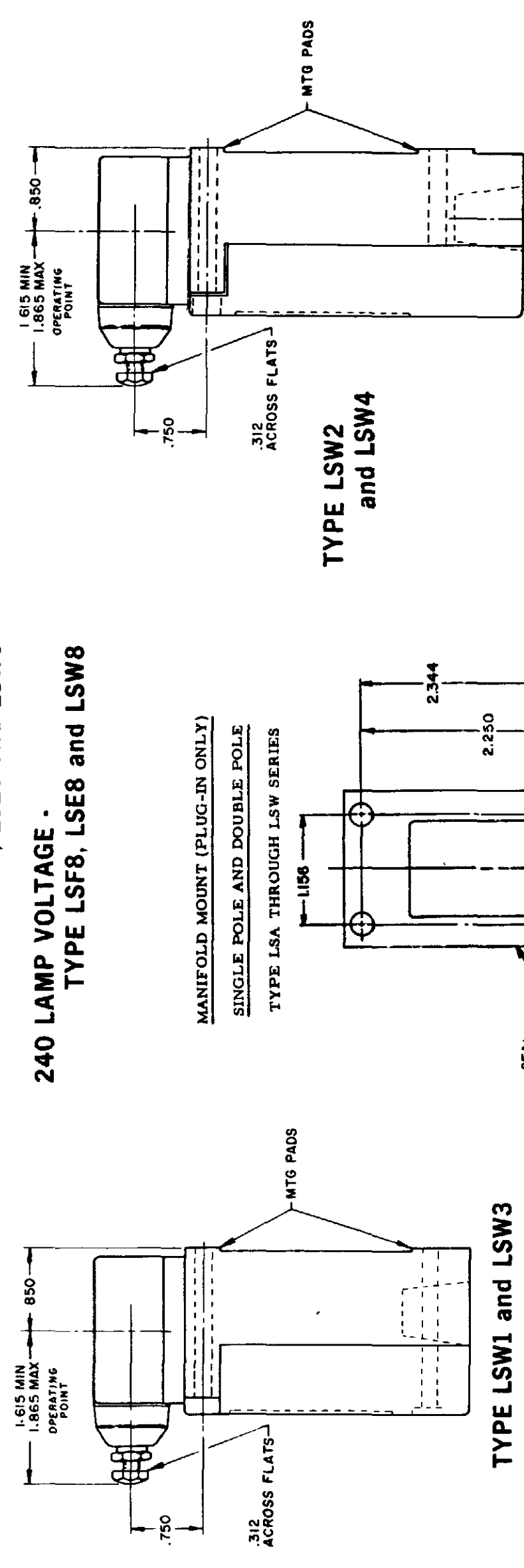
SINGLE POLE

DOUBLE POLE



120 LAMP VOLTAGE - TYPE LSF5, LSE5 and LSW5

240 LAMP VOLTAGE - TYPE LSF8, LSE8 and LSW8



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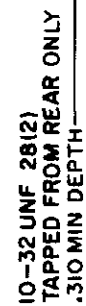
MICRO SWITCH
a Honeywell Division

SWITCH - ENCLOSED

CATALOG LISTING
LSA-LSW SERIES
CHART 1

PAGE 5 OF 10

SCALE NONE
DO NOT SCALE PRINT



TYPE LSG2 and LSG4

TYPE LSG1 and LSG3

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

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		

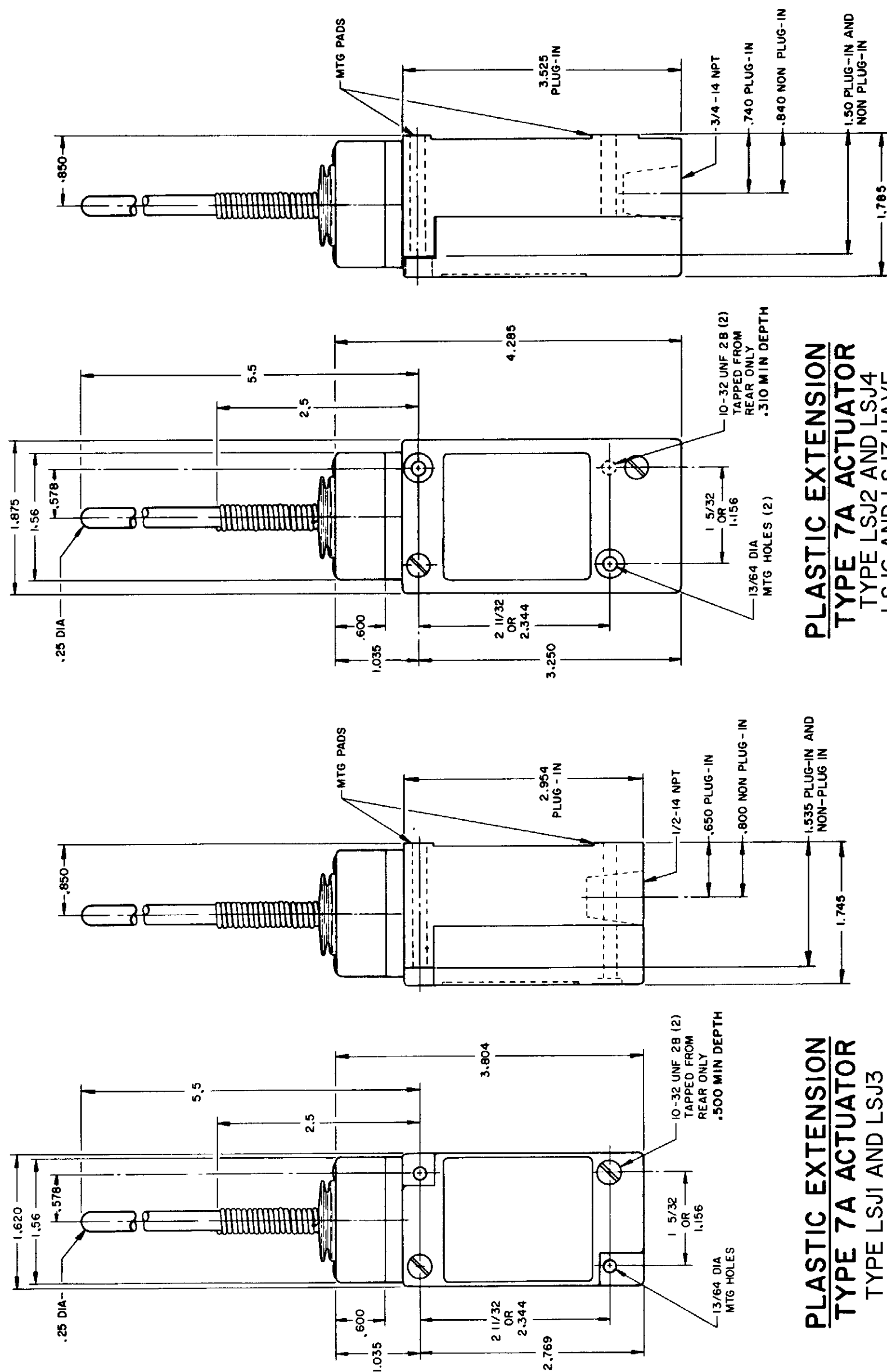
SIDE PLUNGER TYPES

OPERATING POINT GIVEN IN RELATION TO CENTER OF HE

CHARACTERISTICS	LSE PLUNGER	LSF ROLLER PLUNGER	LSW ADJ PLUNGER	LSG PLUNGER MAINTAINED	SEQUENCE BASIC		
					LSE	LSF	LSW
PRETRAVEL (MAX)	.100	.100	.100	.170	1ST STEP .100		
DIFFERENTIAL TRAVEL (MAX)	.045	.045	.045	.090	2ND STEP .020 MIN ADD'L		
OVERTRAVEL (MIN)	.190	.190	.190	.080	.025 EACH STEP		
OPERATING FORCE (MAX)	6 LBS	6 LBS	6 LBS	10 LBS	.170	6 LBS	
OPERATING POINT	1.300 ± .030	1.735 ± .040	ADJUSTABLE FROM 1.615 MIN 1.865 MAX	1.480 ± .030	1ST STEP		
FULL OVERTRAVEL FORCE (MAX)	6 LBS	6 LBS	6 LBS	10 LBS	1.310±.030 1.745±.040	1.625 MIN / 1.875 MAX	6 LBS

WOBBLE STICK DOUBLE POLE

SINGLE 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

MINICRO SWITCH
Honeywell Division
FED MFG CODE 91929

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SWITCH - ENCLOSED

LSA-LSW SERIES

CHART 1

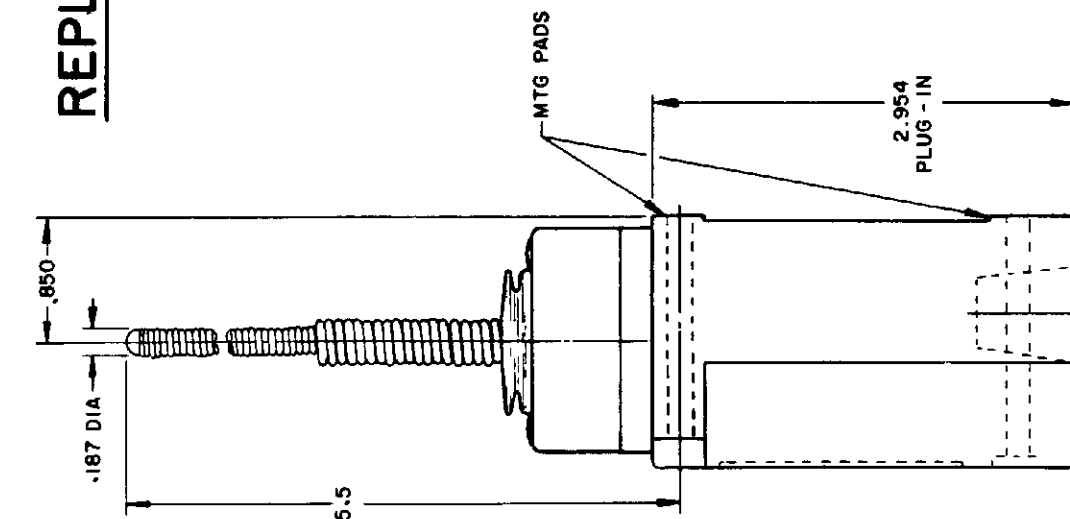
CATALOG LISTING

PAGE 7 OF 10

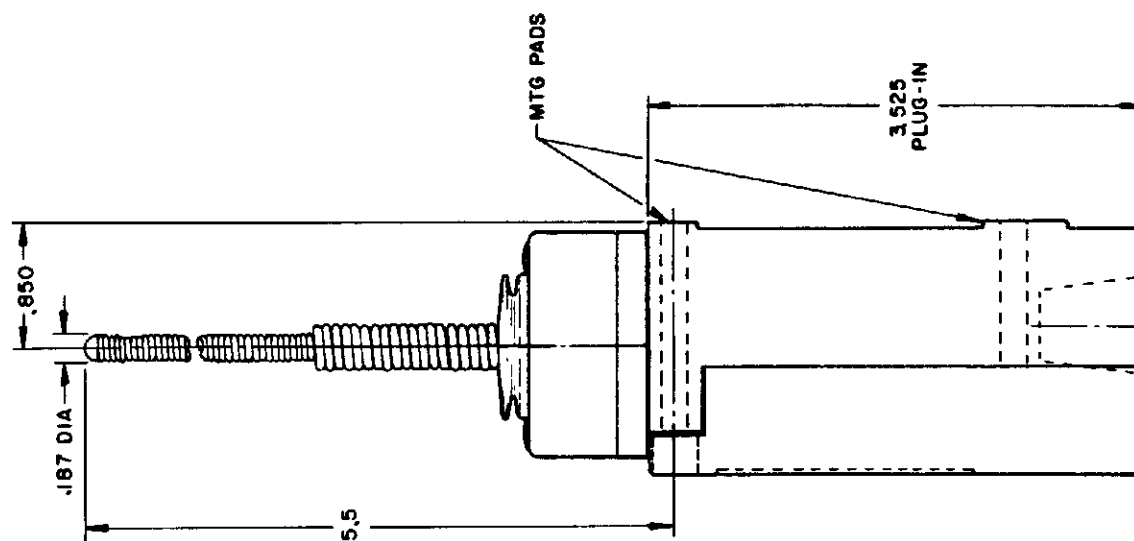
SCALE NONE

DO NOT SCALE PRINT

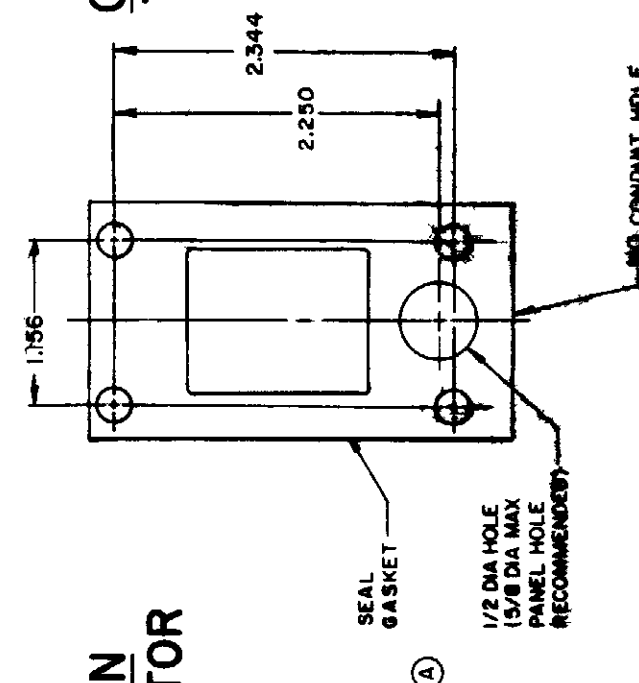
REPLACEMENT ACTUATOR
LSZ-4009



CABLE EXTENSION
TYPE 7N ACTUATOR



CABLE EXTENSION
TYPE 7N ACTUATOR

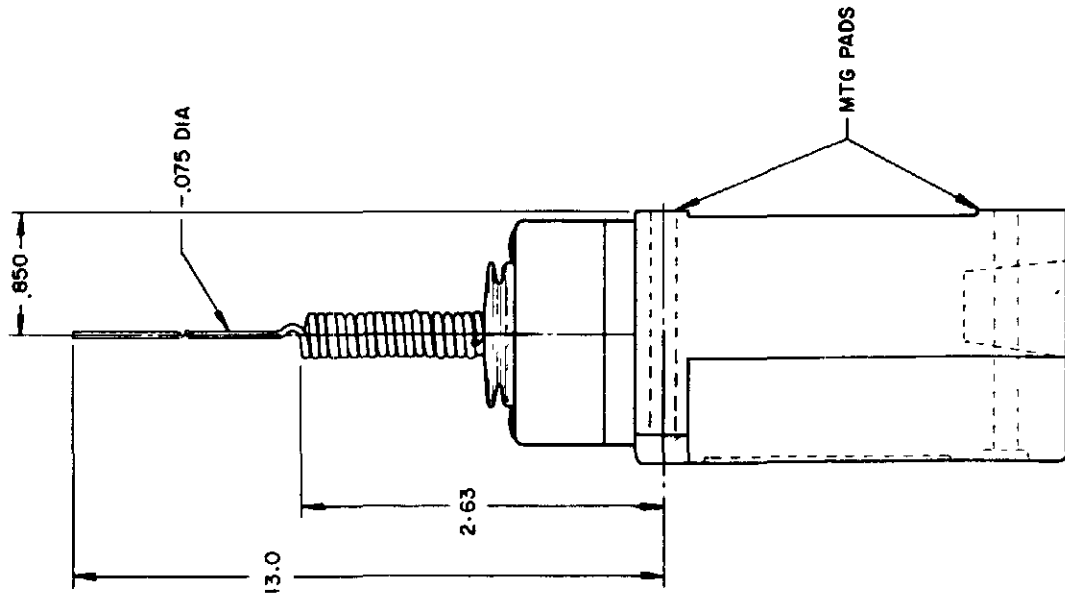


REPLACEMENT ACTUATOR
LSZ-40II

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

SINGLE POLE PLUG-IN ONLY
WITH INDICATOR LAMP

.180 X 400 LENS
(FLUSH WITH
HOUSING)

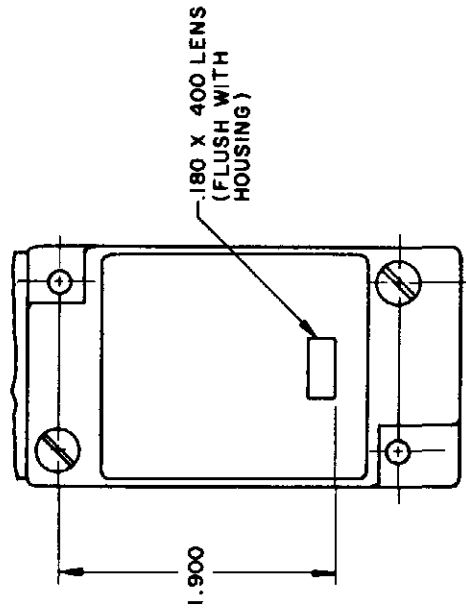


WIRE EXTENSION TYPE 7M ACTUATOR

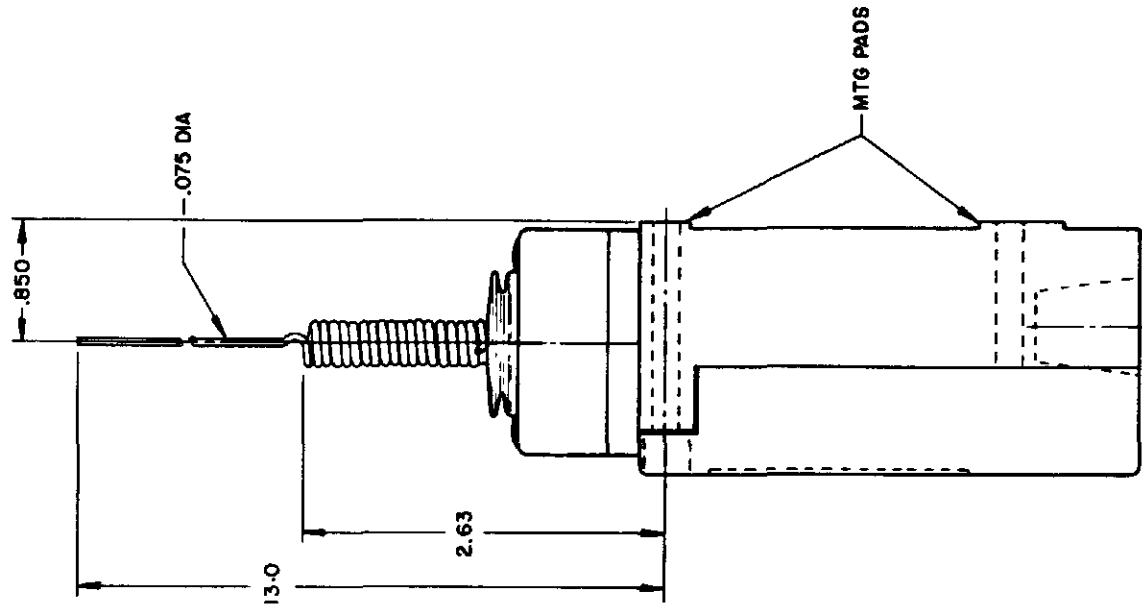
TYPE LSJ1 and LSJ3

REPLACEMENT ACTUATOR - LSZ 4010

SINGLE POLE PLUG-IN ONLY
WITH INDICATOR LAMP



120 LAMP VOLTAGE TYPE LSJ5
240 LAMP VOLTAGE TYPE LSJ8



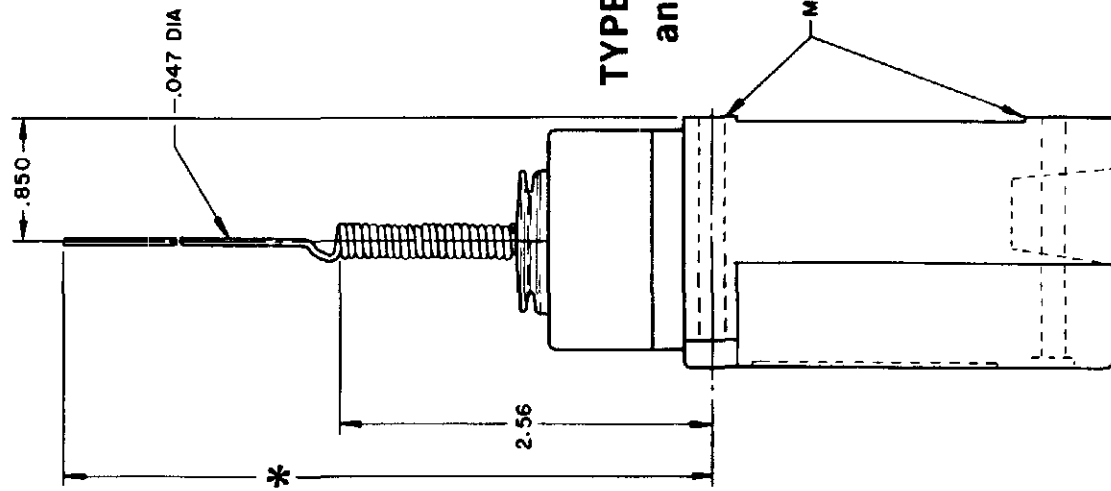
WIRE EXTENSION TYPE 7M ACTUATOR

TYPE LSJ2 and LSJ4

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

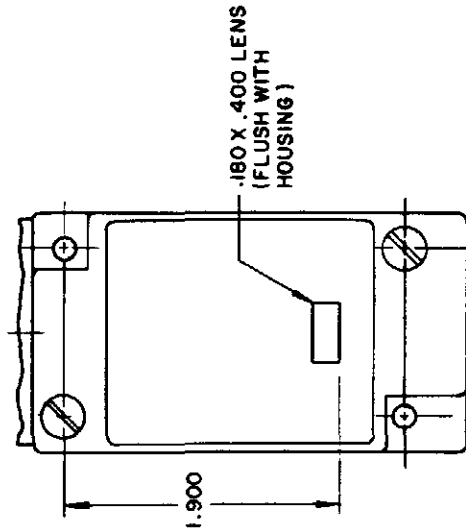
CAT WHISKER

SINGLE POLE



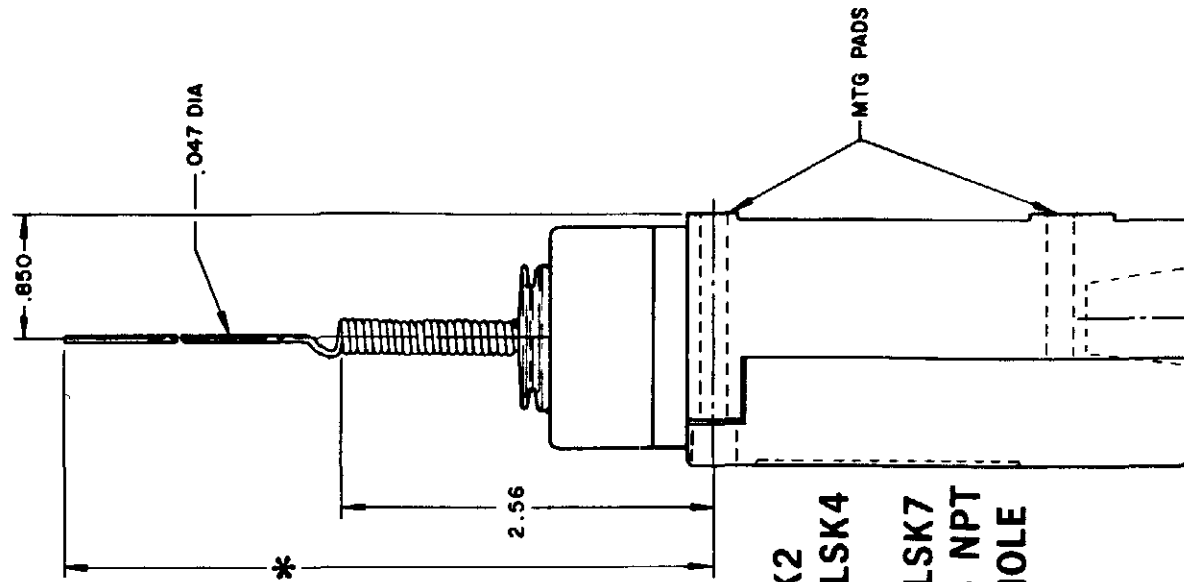
TYPE LSK1
and LSK3

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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MICRO SWITCH
a Honeywell Division

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	5.0	3.0	7.0
	10.0	10.0	7.0	5.0

REVISONS	
L	0031956
BS	10JUL97
B	201004
10	201000
C	201748
17	201748
D	202198
CST	23JAN01
E	204871
GJW	FEB02
F	206581
GLH	14OCT02
G	206763
CST	31OCT02
H	207179
GL	14JAN03
J	207474
739	18FEB03
K	0006871
KR	11AUG04

ISSUE		CATALOG LISTING		M LSA-LSW SERIES CHART 1					
12				PAGE 9 OF 10					
				PSR	10JUL07	RELEASE NO	CO-78498	REPLACES	LSA-LSW SERIES
				CHECK	11AUG04	AK			
				CHECK	11JUL 94	JA F			
				CHECK	15 JUN 94				
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HEAD TYPE	CELLULOSE	DETERGENT	5 STAR	ASTM #1	ASTM #2	ASTM #3	ASTM #4	HOUGHTON SAFE 271	HOUGHTON SAFE 820	MINERAL OIL	PETROL OIL CRUDE	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	4	1	2	4	4	4	1	1	2		
LSB	4	1	1	1	1	2	1	4	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	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	4	1	2	4	4	4	1	1	2		
LSM	4	1	1	1	1	2	1	4	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	4	1	2	4	4	4	1	1	2		
LSP	4	1	1	1	1	2	1	4	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	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