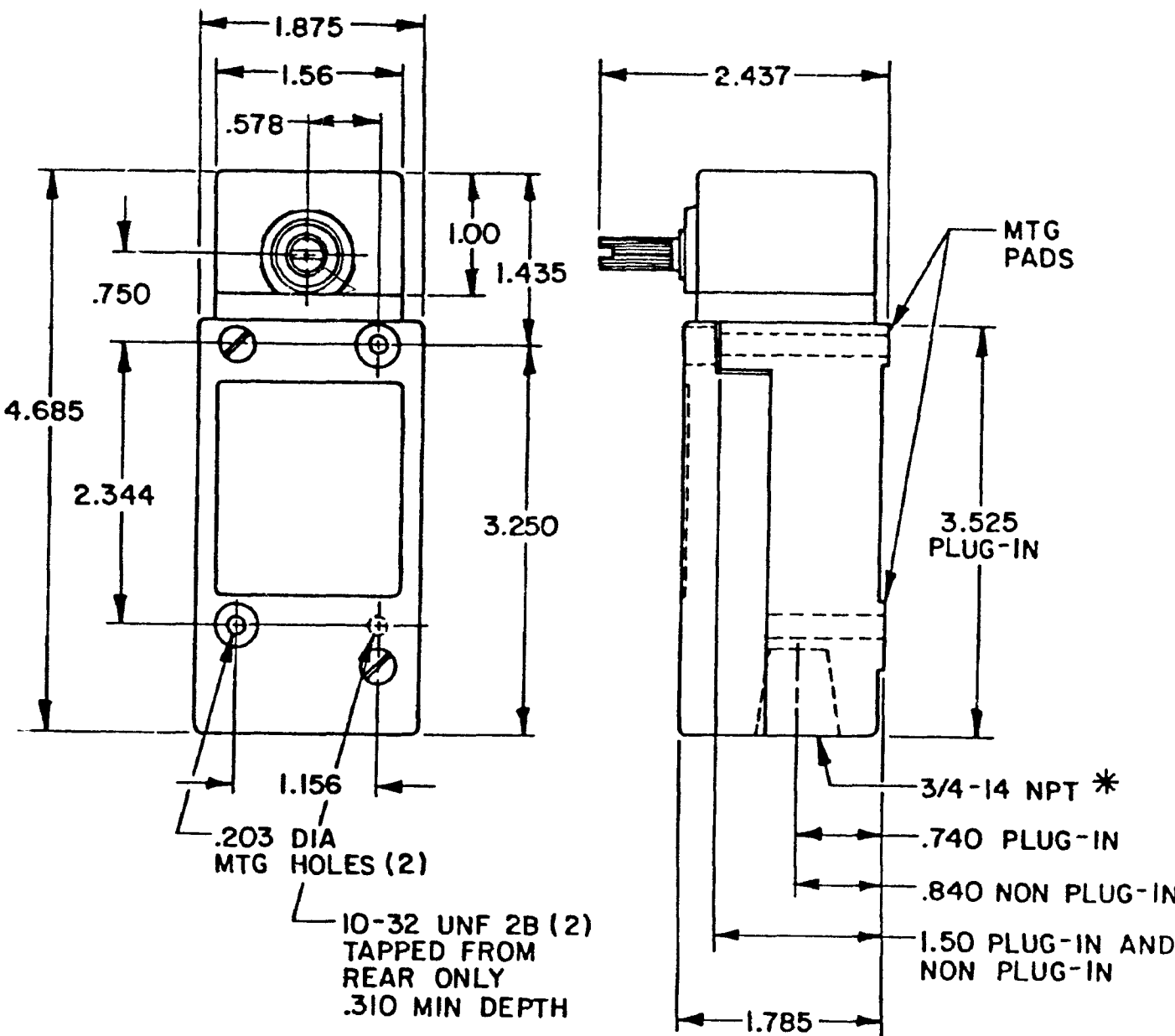


CATALOG LISTING		M LSA-LSW SERIES CHART 1	
ISSUE	NO	PAGE 1	OF 10
12	121194	PSR	121194
12	121194	CHECK	121194
12	121194	RELEASE	NO 78498
12	121194	REPLACES	LSA-LSW SERIES

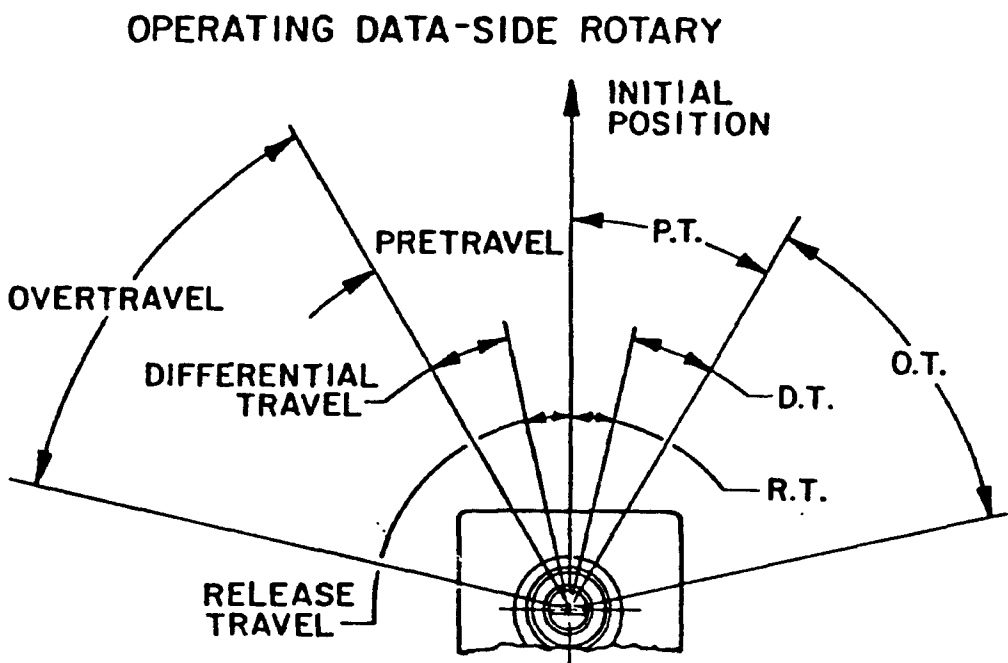
REVIEWS		M LSA-LSW SERIES CHART 1	
ISSUE	NO	PAGE 1	OF 10
12	121194	PSR	121194
12	121194	CHECK	121194
12	121194	RELEASE	NO 78498
12	121194	REPLACES	LSA-LSW SERIES

DOUBLE POLE

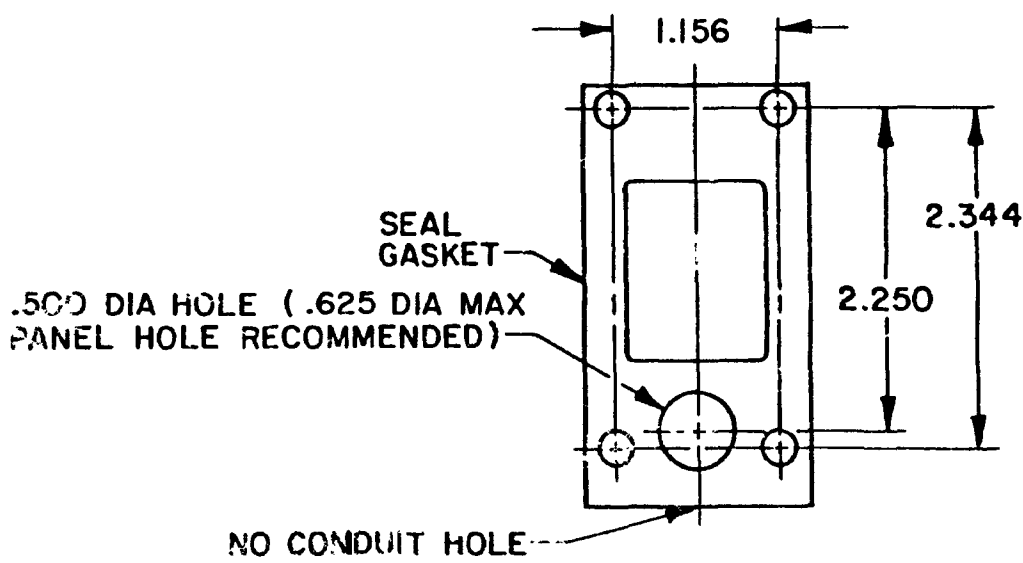


TYPE: LSA2, LSH2, LSM2, LSN2, LSP2, LSR2
LSA4, LSH4, LSM4, LSN4, LSP4, LSR4

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



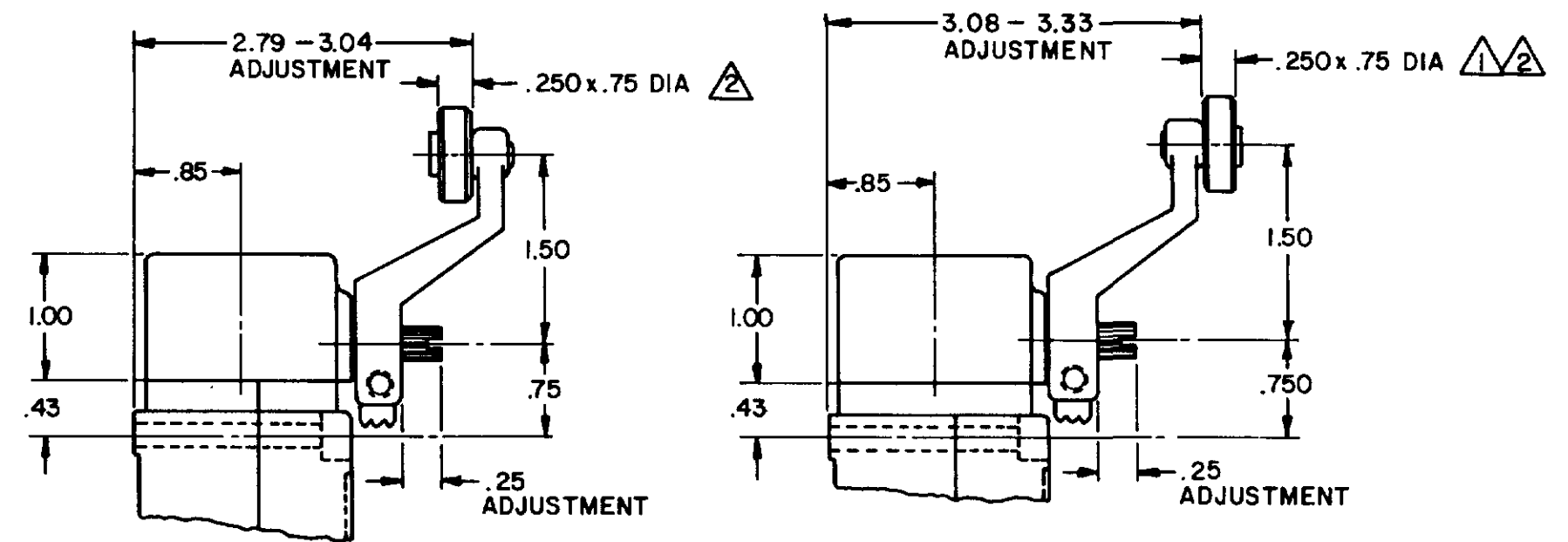
MANIFOLD MOUNT (PLUG-IN ONLY)
SINGLE POLE AND DOUBLE POLE
TYPE LSA THROUGH LSW SERIES



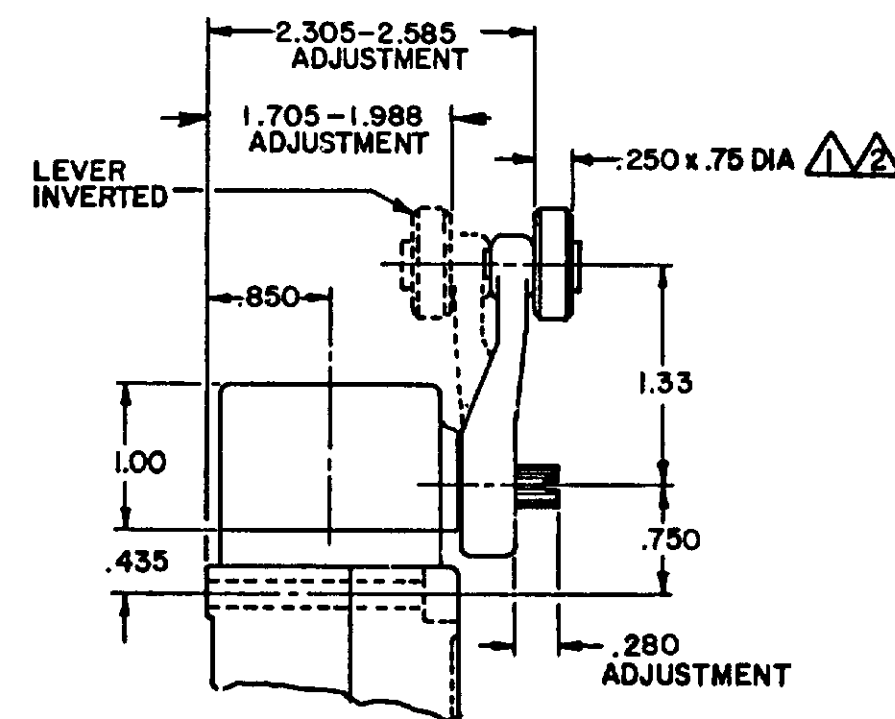
THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF MICRO SWITCH, A DIVISION OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH.		
MICRO SWITCH a Honeywell Division FED. MFG. CODE 91929	SWITCH - ENCLOSED	CATALOG LISTING
		LSA-LSW SERIES CHART 1

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		$\pm$		

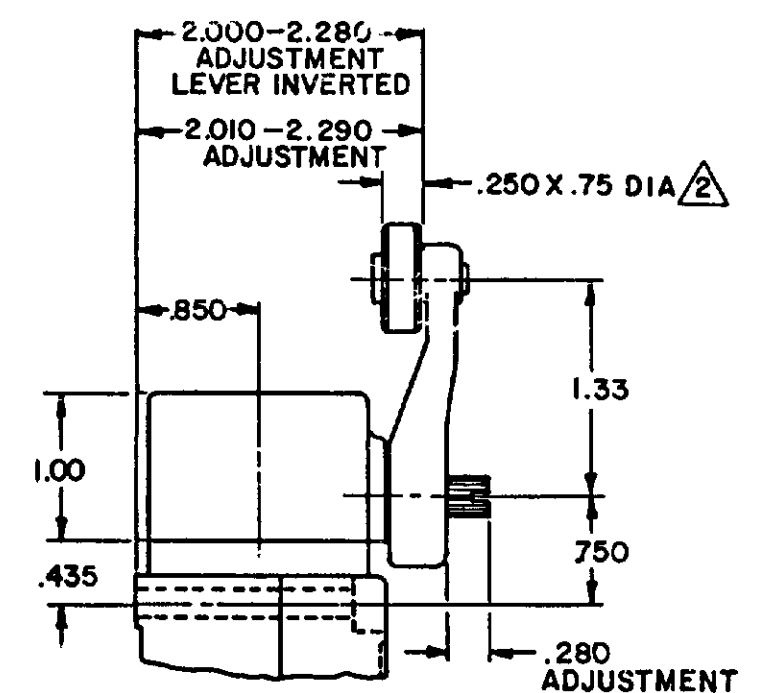
SIDE ROTARY CAM TRACKING



LSZ55 TYPE LEVERS



OPEN MOUNTED ROLLER



CLOSED MOUNTED ROLLER

LSZ59 TYPE LEVERS

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

DO NOT SCALE PRINT

TOLERANCES ARE

ONE PLACE (0) $\pm .030$

TWO PLACES (00) $\pm .015$

THREE PLACES (1.000) $\pm .005$

ANGLES	$\pm$
--------	-------

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CATALOG LISTING
LSA-LSW SERIES
CHART 1

MICRO SWITCH
a Honeywell Division

SWITCH - ENCLOSED

FED MFG CODE 91929

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		

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																											
L	0031956 BS 10JUL07																										
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C	2011748 CST 17NOV00																										
D	202198 CST 23JAN01																										
E	204871 G L W FEB 02																										
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G	206763 31 OCT 02																										
H	207179 GTH 14 JAN 03																										
J	207474 TSM 18FEB03																										
K	2060871 NR 11AUG01																										
RASTER	DRAWN	MAM	15 JUN 94																								

TOP ROTARY

SINGLE POLE

DOUBLE 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	
		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.)**

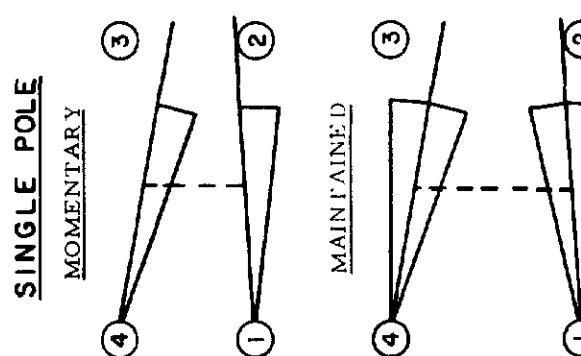
D. C. VOLTAGE	MAKE AND BREAK AMPS	
	INDUCTIVE	RESISTIVE
30	4.2	4.2
120	1.1	1.1
240	.55	.55

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

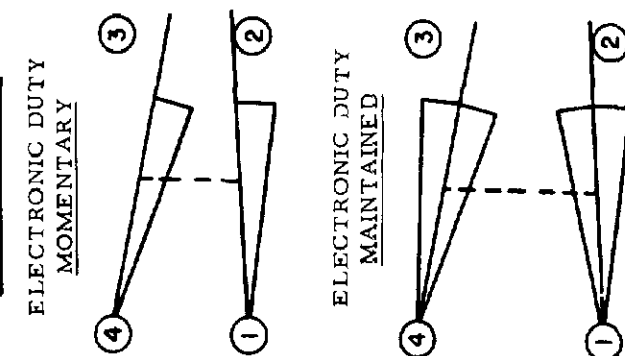
DOUBLE POLE



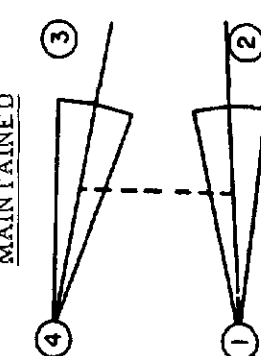
SINGLE POLE



SINGLE POLE



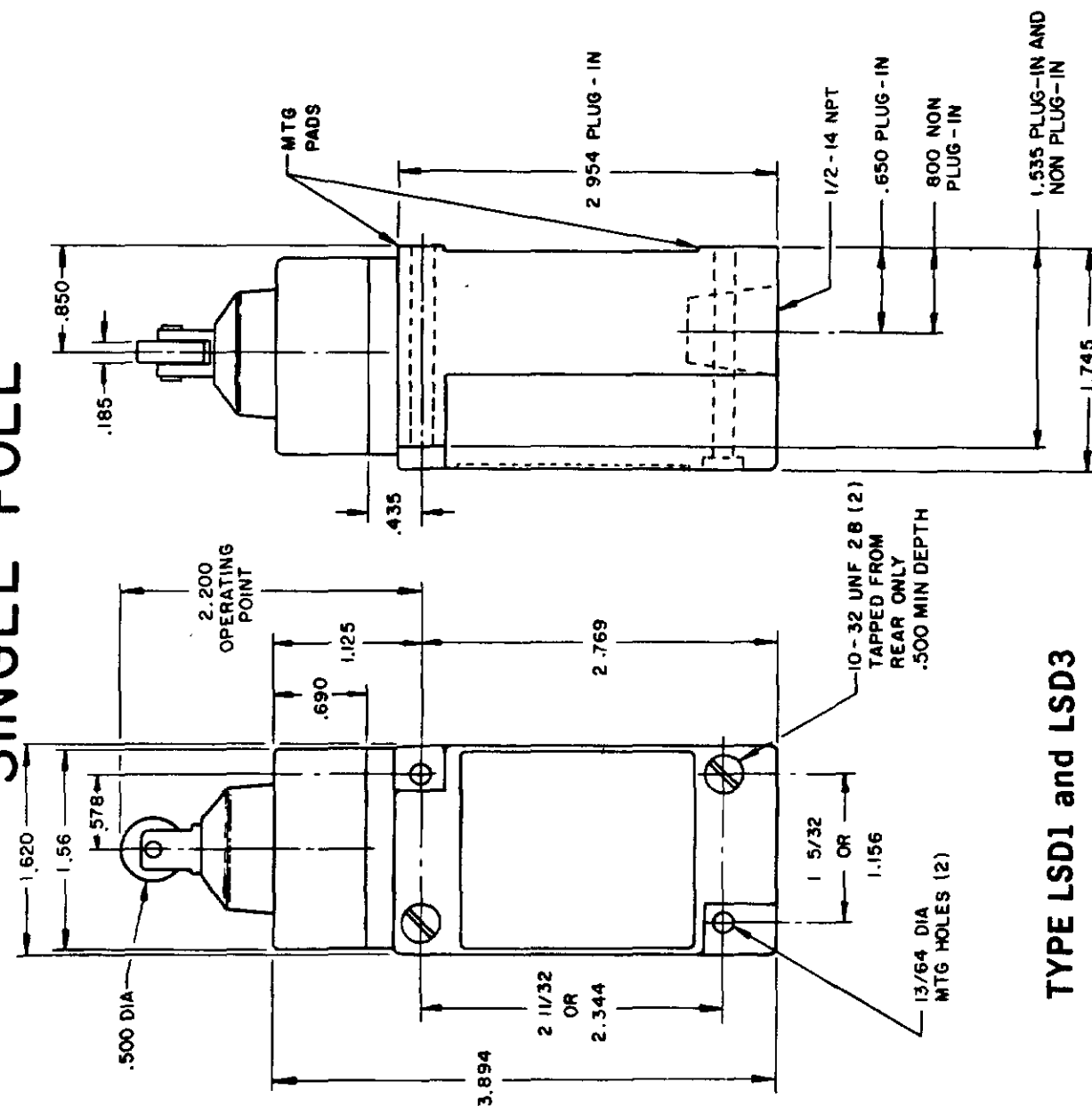
ELECTRONIC DUTY



DIRECT ACTING



SINGLE POLE



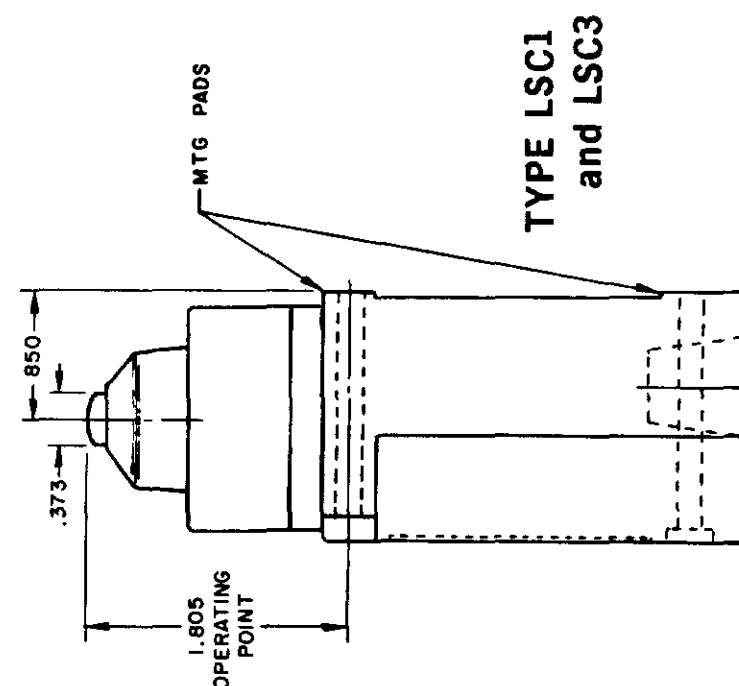
TYPE LSD1 and LSD3

DOUBLE POLE

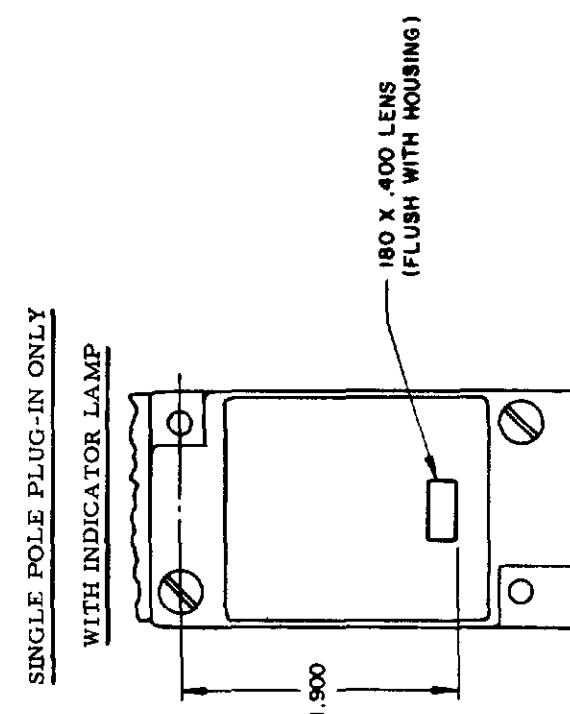


TYPE LSD2 and LSD4

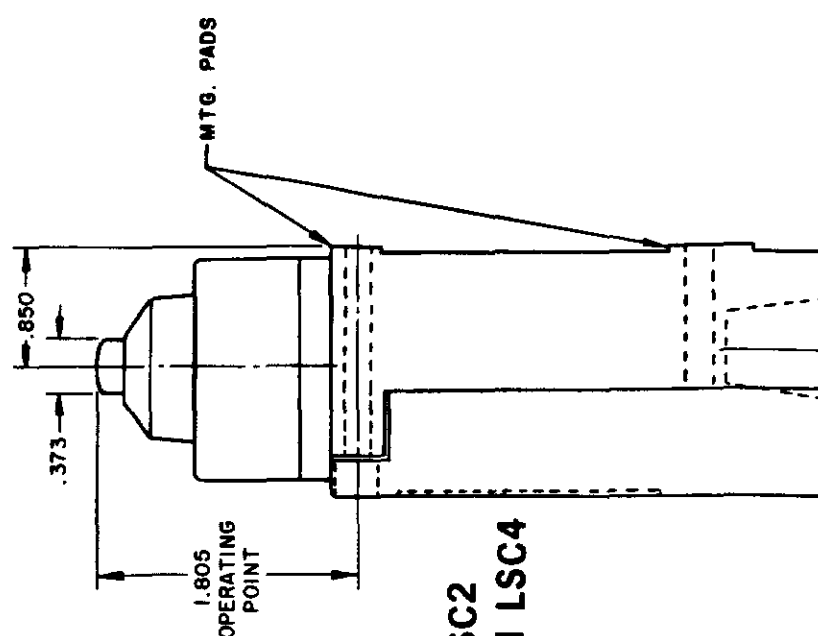
*(LSD6 and LSD7 have 1/2 - 14 NPT CON



TYPE LSC1 and LSC3

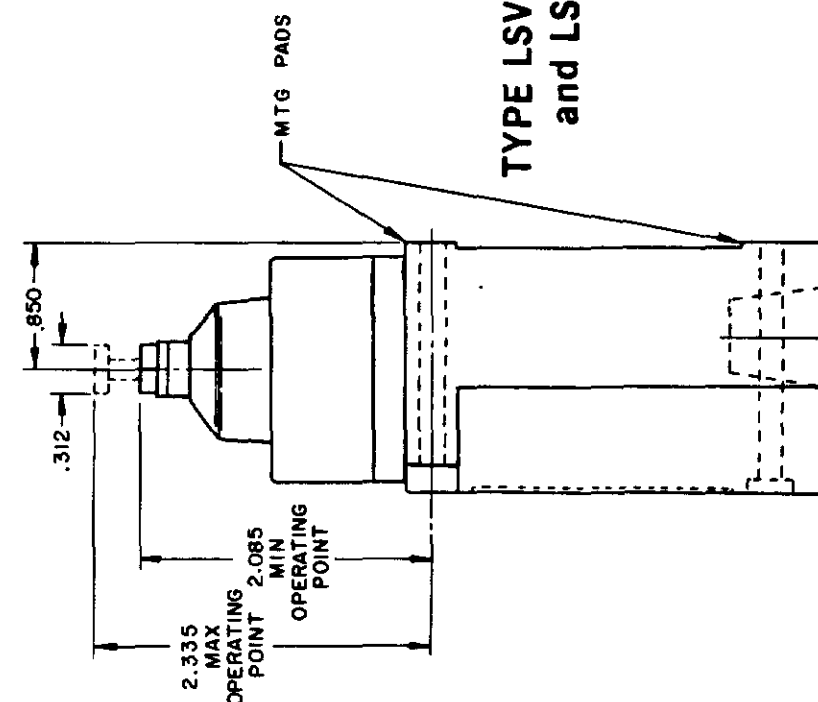


**TYPE LSC2
and LSC4**

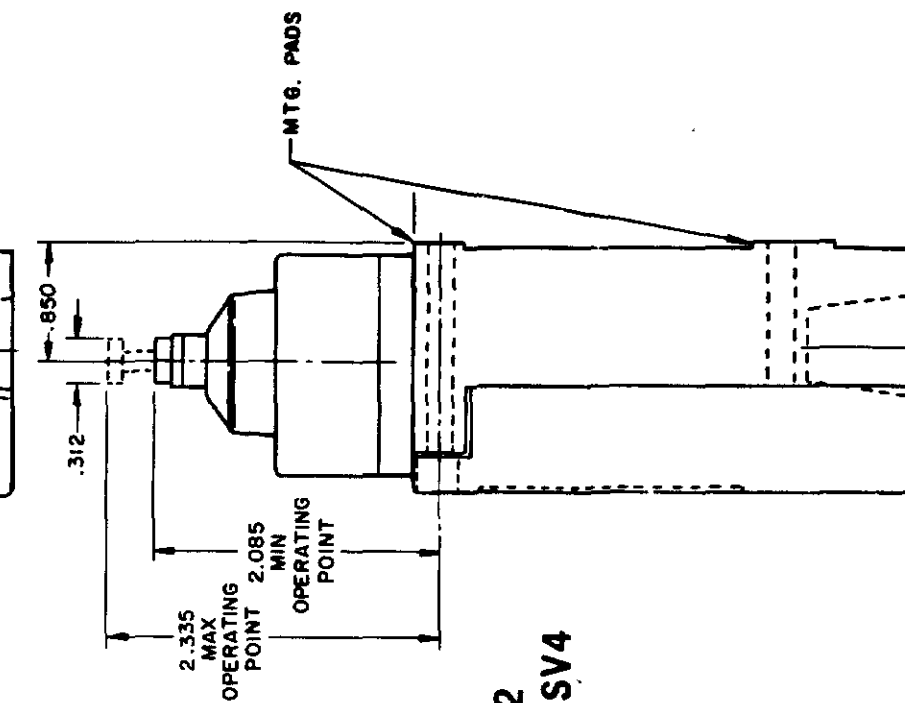


**120 LAMP VOLTAGE -
TYPE LSC5, LSD5 or LSV5**

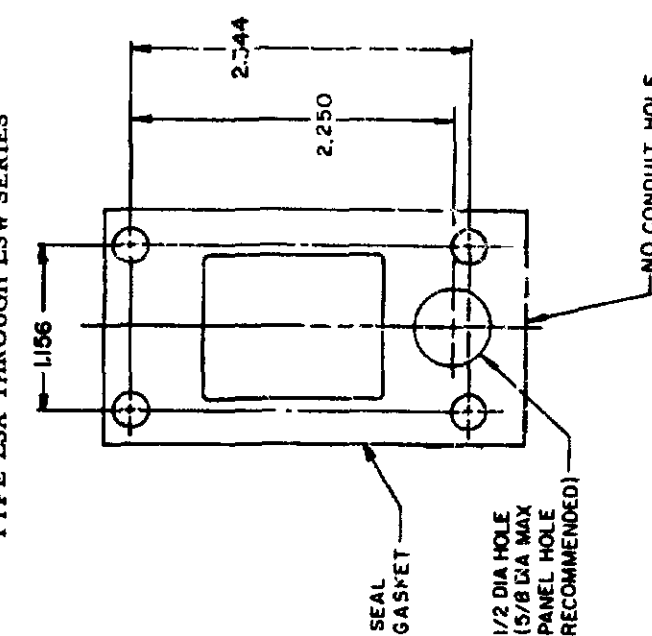
240 LAMP VOLTAGE .
TYPE LSC8, LSD8 or LSV8



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

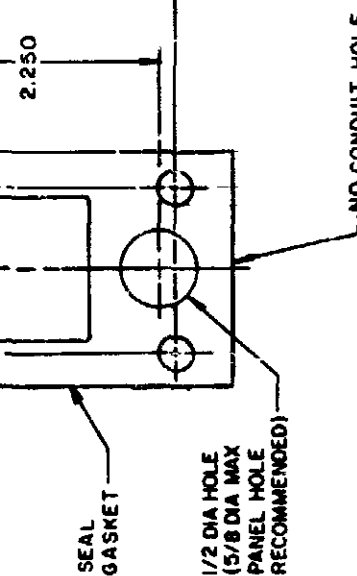
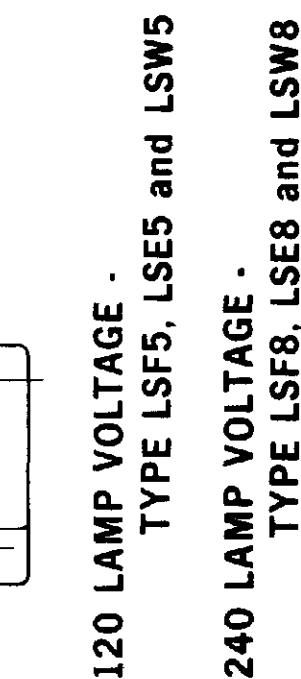
LSA-LSW SERIES

CHART 1

SCALE NONE

~~DO NOT SCALE PRINT~~

SINGLE POLE DOUBLE POLE



SCALE NONE

DO NOT SCALE PRINT



TYPE LSG1 and LSG3

INITIAL POSITION —
(FREE POSITION) }
OPERATING POINT }
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		1ST STEP .070 2ND STEP .016 MIN ADD'L			
DIFFERENTIAL TRAVEL (MAX)	SINGLE POLE .015 DOUBLE POLE .020	SINGLE POLE .015 DOUBLE POLE .020	SINGLE POLE .015 DOUBLE POLE .020	.015 EACH STEP			
OVERTRAVEL (MIN)	.190	.190		.170			
OPERATING FORCE (MAX)	4 LBS	4 LBS		4 LBS			
OPERATING POINT	1.805 ± .030	2.200 ± .040		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 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					2ND STEP .020 MIN ADD'L		
TRAVEL (MAX)	.045	.045	.045	.090	.025 EACH STEP		
OVERTRAVEL (MIN)	.190	.190	.190	.080	.170		
OPERATING FORCE (MAX)	6 LBS	6 LBS	6 LBS	10 LBS	6 LBS		
OPERATING POINT	1.300 ± .030	1.735 ± .040	ADJUSTABLE FROM 1.615 MIN 1.865 MAX	1.480 ± .030	1ST STEP 1.310±.030 1.745±.040 1.625 MIN / 1.875 MAX		
FULL OVERTRAVEL FORCE (MAX)	6 LBS	6 LBS	6 LBS	10 LBS	6 LBS		

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MICRO SWITCH
a Honeywell Division

SWITCH - ENCLOSED

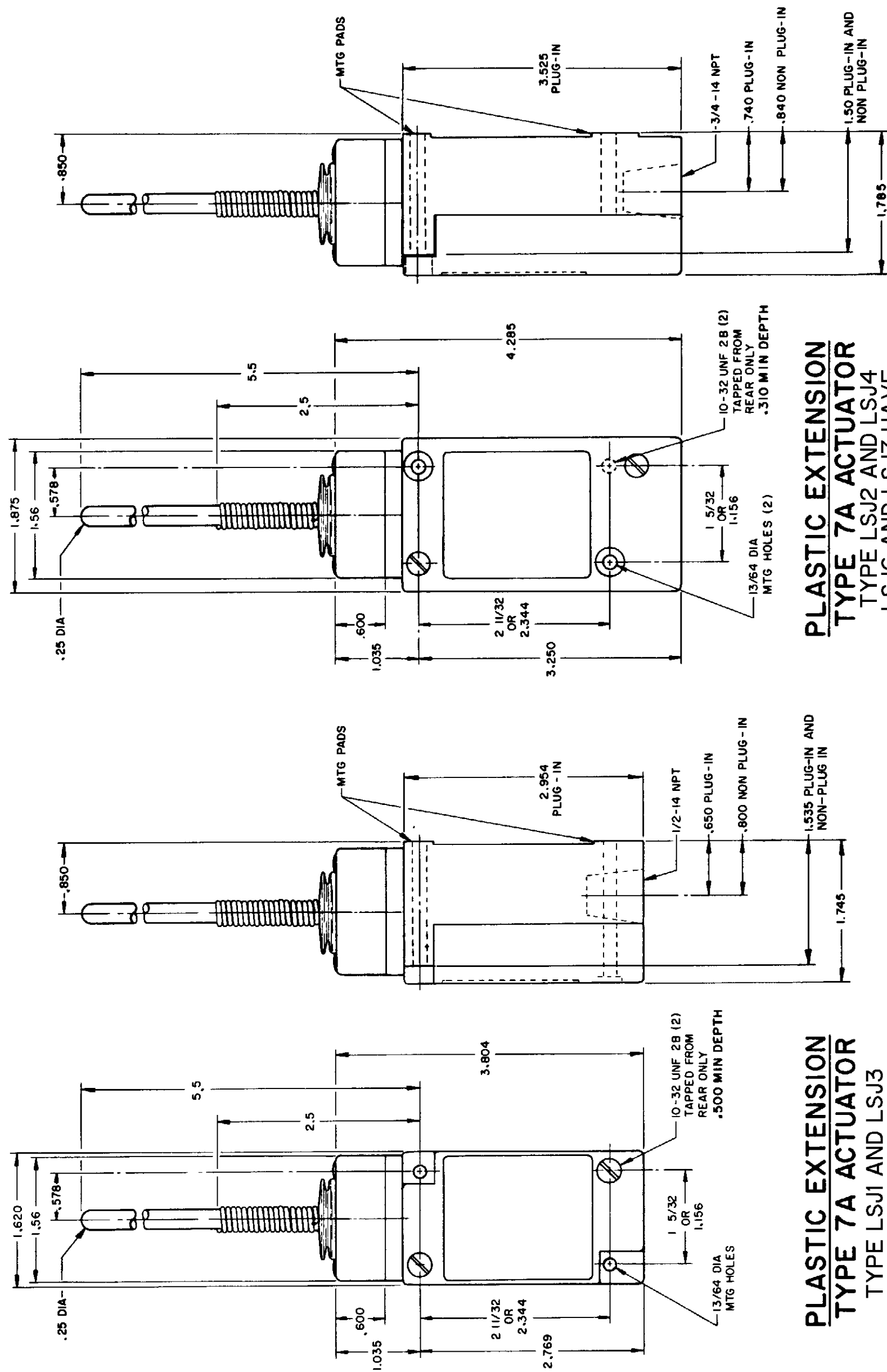
CATALOG LISTING
LSA-LSW SERIES
CHART 1

SCALE	NONE	
DO NOT SCALE PRINT		
UNLESS		
DIMENSIONS ARE NOTED		
TOLERANCES		
ONE PLACE	(.0)	±
TWO PLACE	(.00)	±
THREE PLACE	(.000)	±
ANGLES		±
WEIGHT		

WOBBLE STICK

SINGLE POLE

DOUBLE POLE



PLASTIC EXTENSION
TYPE 7A ACTUATOR
TYPE LSJ1 AND LSJ3

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

MICRO SWITCH
Honeywell Division

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SWITCH - ENCLOSED

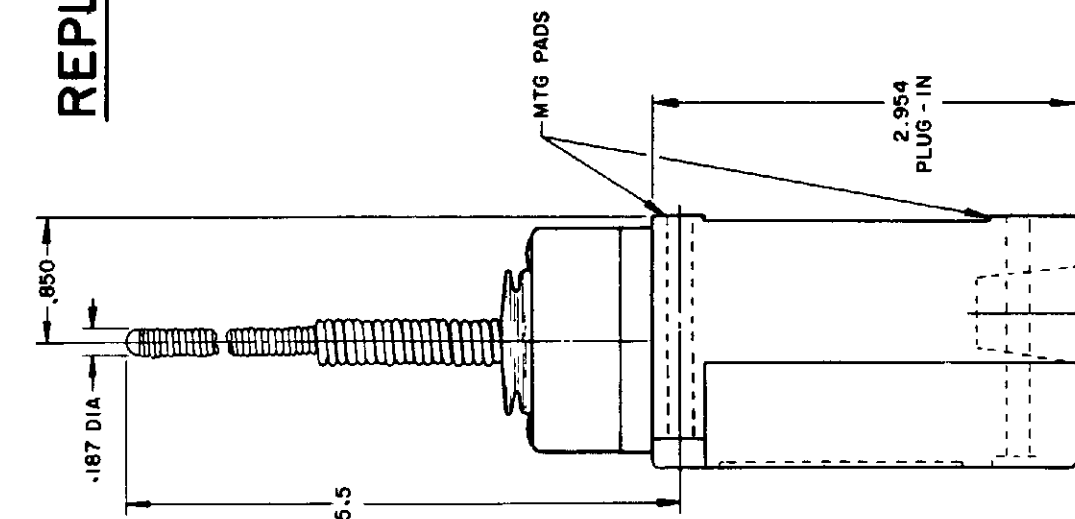
LSA-LSW SERIES

PAGE 7 OF 10

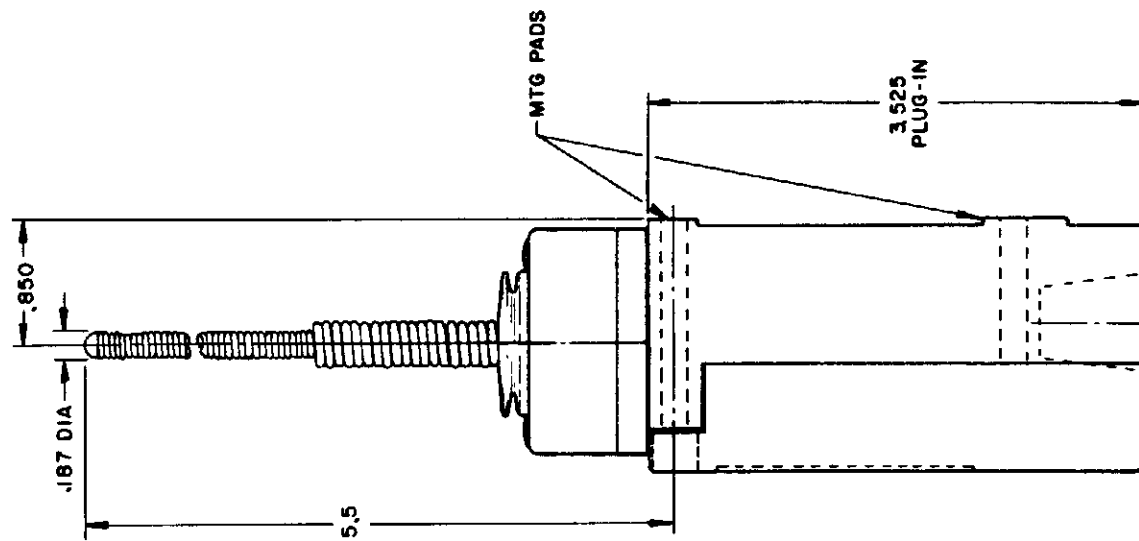
SCALE NONE

DO NOT SCALE PRINT

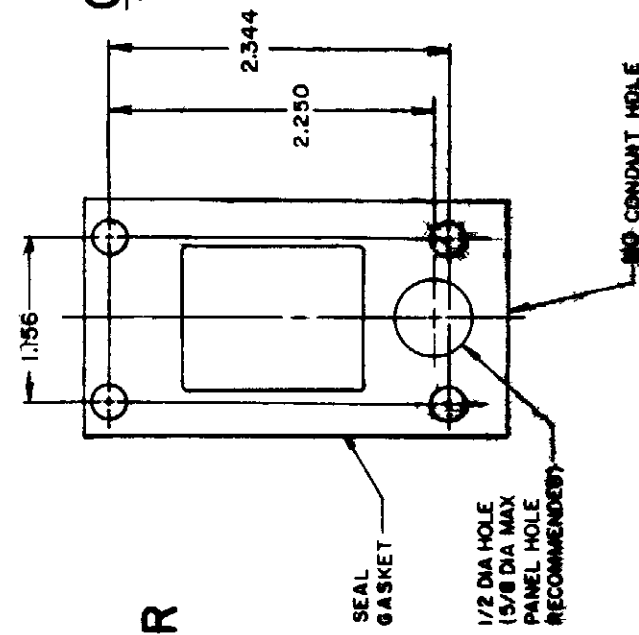
REPLACEMENT ACTUATOR
LSZ-4009



CABLE EXTENSION
TYPE 7 N ACTUATOR



CABLE EXTENSION TYPE 7N ACTUATOR

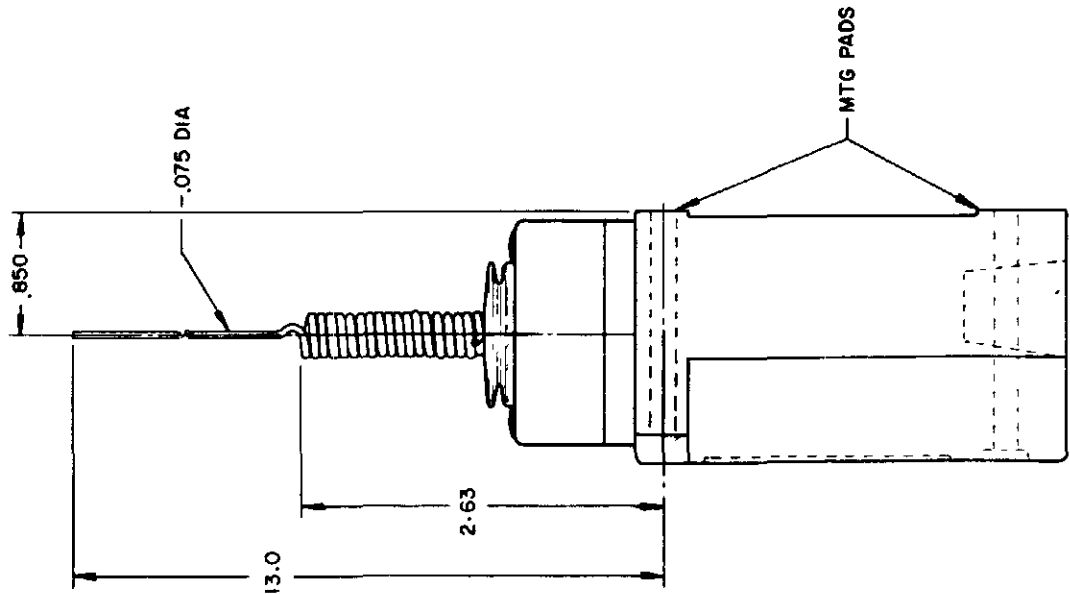


REPLACEMENT ACTUATOR
LSZ-40II

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)

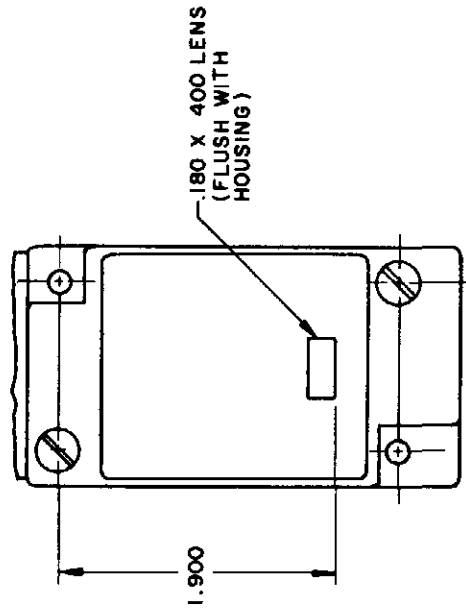


WIRE EXTENSION TYPE 7M ACTUATOR

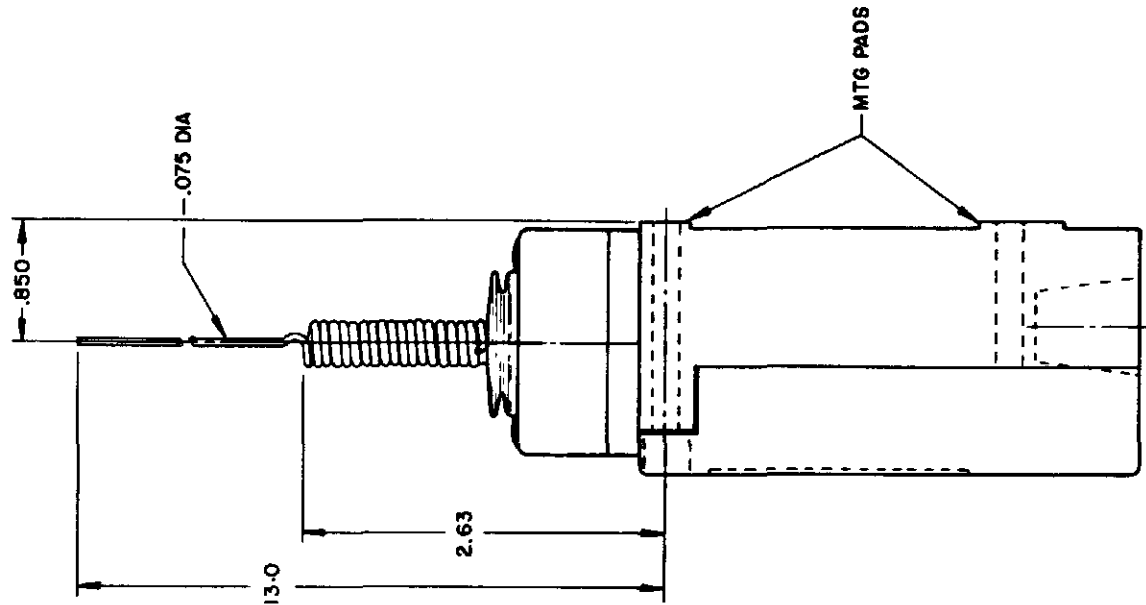
TYPE LSJ1 and LSJ3

REPLACEMENT ACTUATOR - LSZ 4010

SINGLE POLE PLUG-IN ONLY
WITH INDICATOR LAMP



120 LAMP VOLTAGE TYPE LSJ5
240 LAMP VOLTAGE TYPE LSJ8



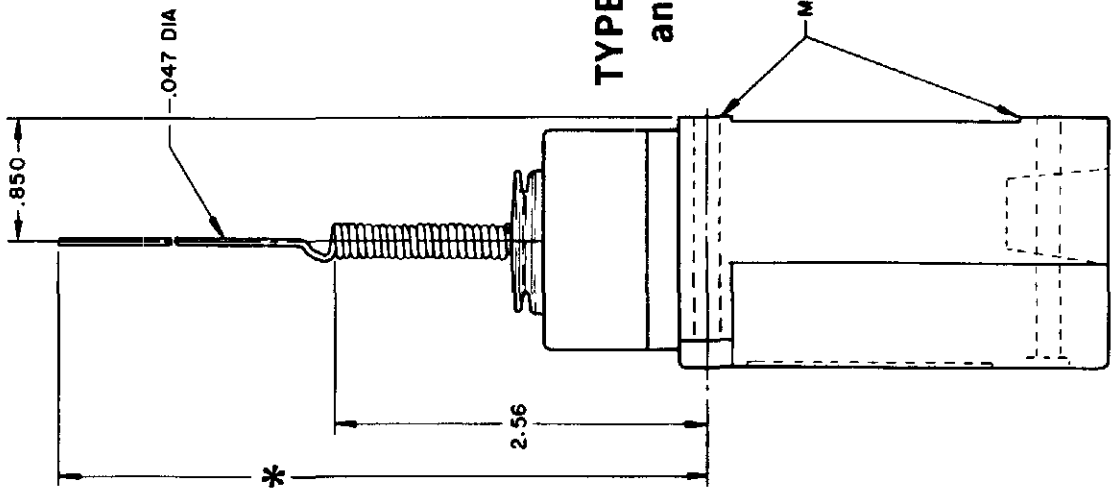
WIRE EXTENSION TYPE 7M ACTUATOR

TYPE LSJ2 and LSJ4

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

CAT WHISKER

SINGLE POLE

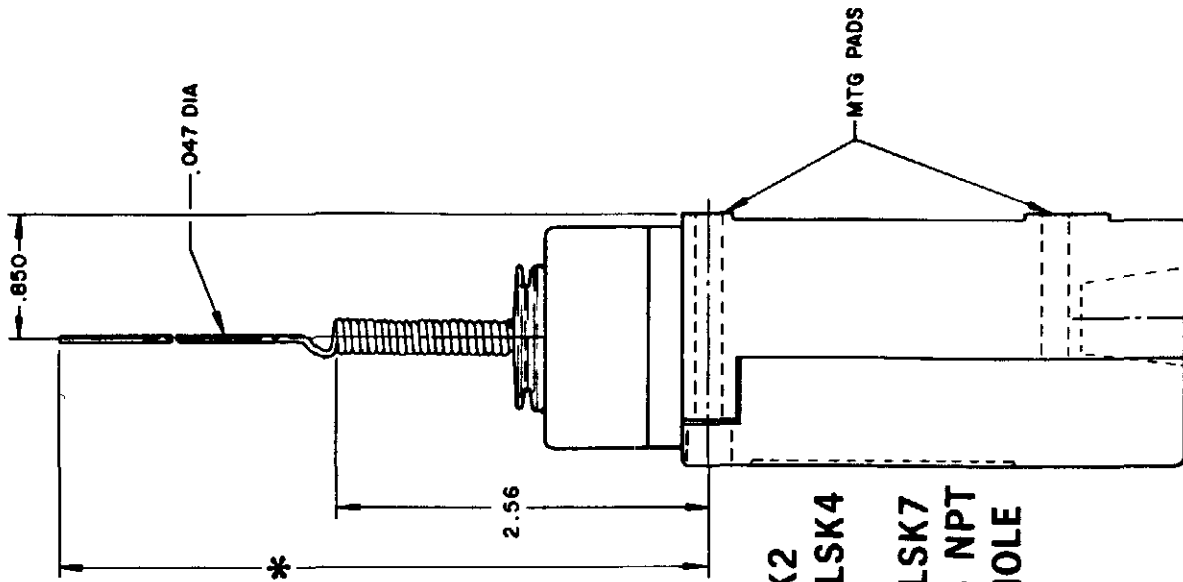


TYPE LSK1
and LSK3

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.

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MICRO SWITCH
a Honeywell Division
FED MFG CODE 91929

SWITCH - ENCLOSED

CATALOG LISTING
LSA-LSW SERIES
CHART 1

PAGE 8 OF 10

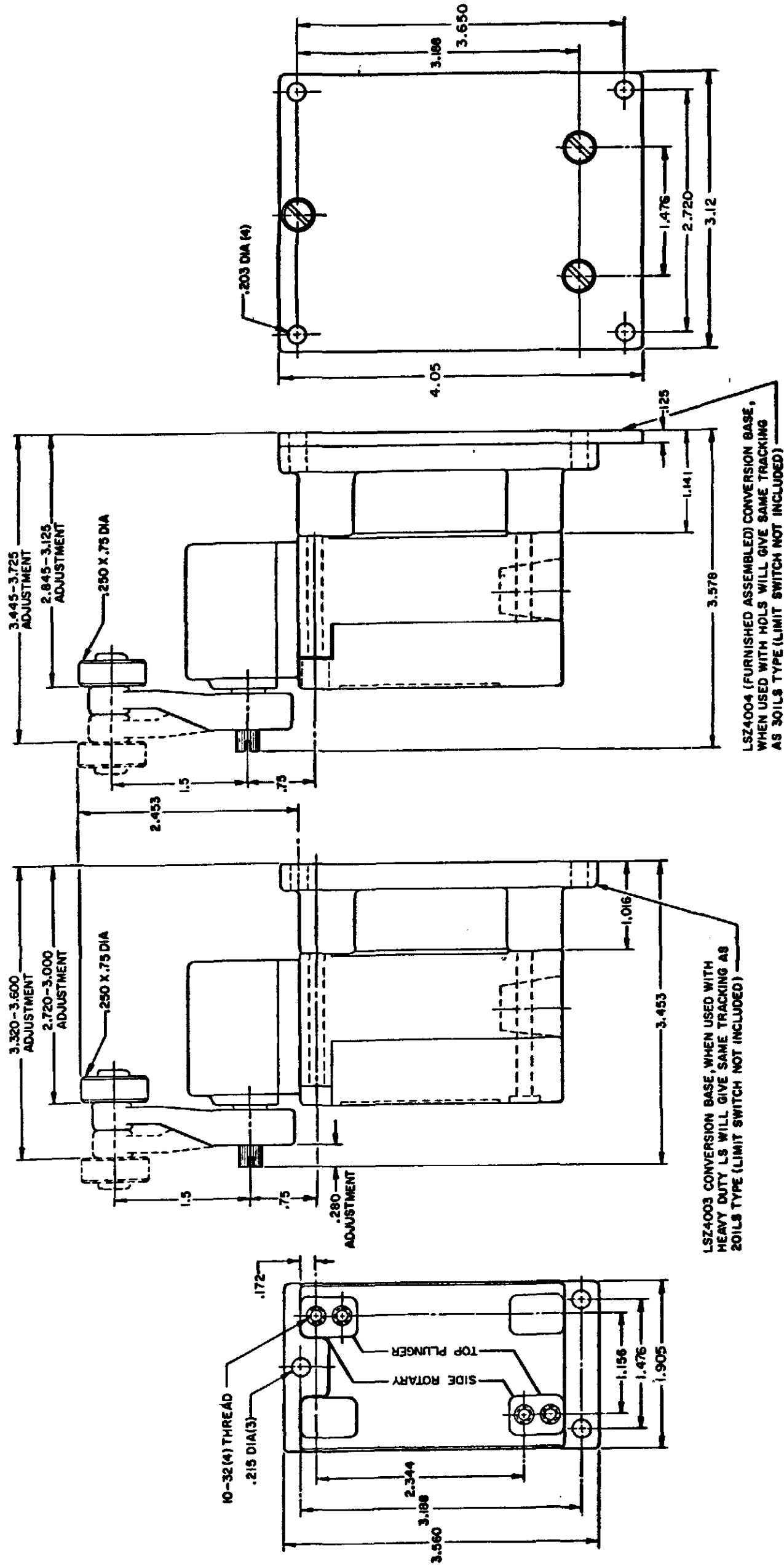
SCALE NONE
DO NOT SCALE PRINT

CAT. WHISKER COIL	5/16" WIRE	7/16" WIRE	WOBBLE STICK	
			ROD	CABLE
2	2	4.5	1.0	1.5
7.0	5.0	3.0	10.0	7.0
OPERATING FORCE-OZ (MAX)			4.0	5.0

CONVERSION BASES

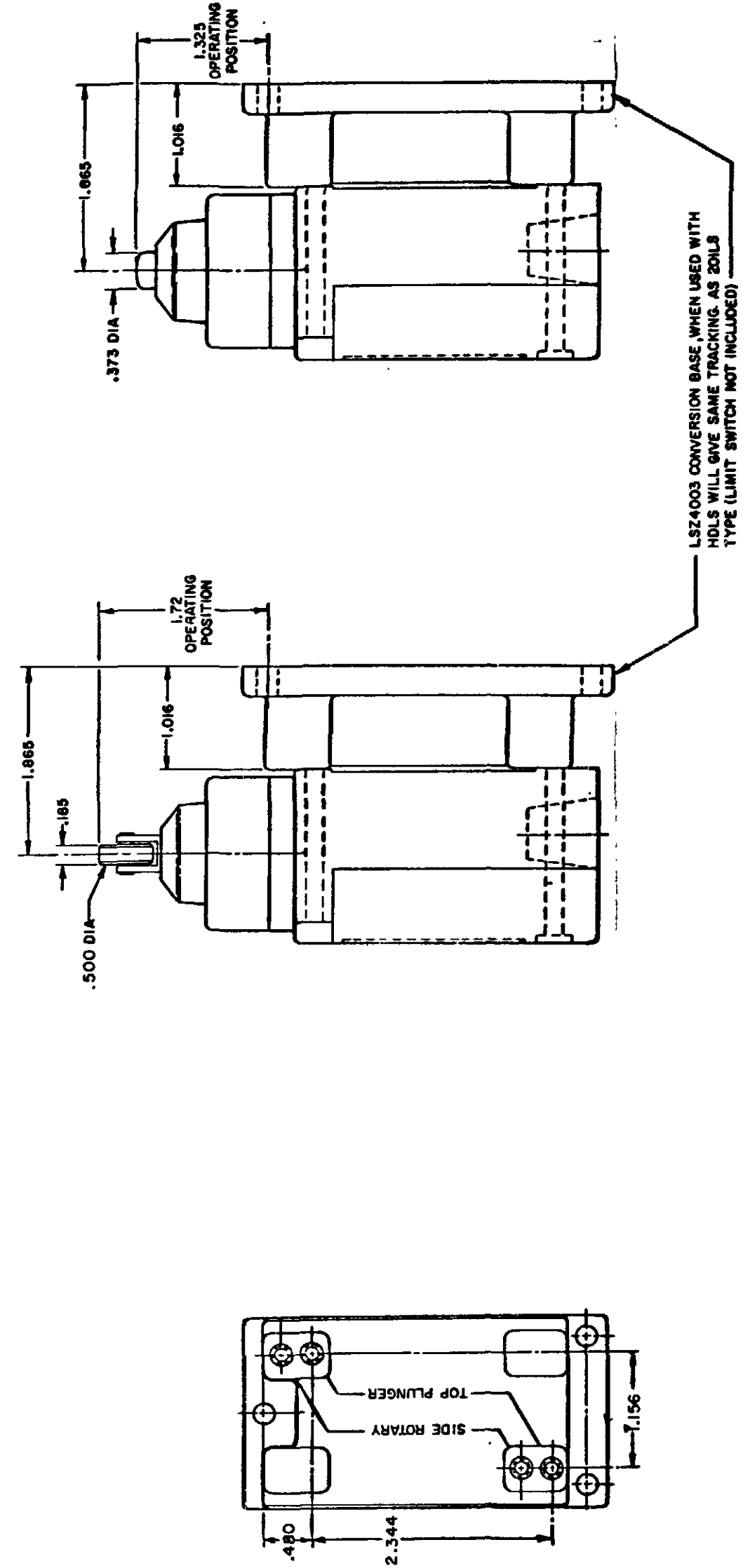
SINGLE POLE (SIDE ROTARY) LSZ 4003

**DOUBLE POLE
(SIDE ROTARY)
LSZ4004**



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

SINGLE POLE TOP PLUNGER



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

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MICRO SWITCH a Honeywell Division FED MFG CODE 91029	SWITCH - ENCLOSED	CATALOG LISTING
		LSA-LSW SERIES CHART 1

SCALE FULL
DO NOT SCALE PRINT

HEAD TYPE	CELLULOSE DETERGENT 5 STAR ASTM #1 ASTM #2 ASTM #3 ASTM #4 HOUGHTON SAFE 271 HOUGHTON SAFE 820 1010, 1035, 1120 MINERAL OIL PETR. OIL CRUDE SILICON GR & OIL SUNSAFE BEER STODDARD SOLV. CHLORINATED SOLVENTS CITRIC ACID DI-ESTER SYN. LUBRICANTS OZONE PYDRAUL PROGUARD PETRO. BASE HYDRAULIC OIL LARD OIL SILICATE ESTERS																							
	LSA	LSB	LSC	LSD	LSE	LSF	LSG	LSH	LSJ	LSK	LSL	LSM	LSN	LSP	LSR	LSV	LSW	LST	LSS					
	4	1	1	1	1	1	2	1	4	1	1	1	1	1	1	4	1	2	4	4	4	1	1	2
	4	1	1	1	1	1	2	1	4	1	1	1	1	1	1	4	1	2	4	4	4	1	1	2
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	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

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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Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331