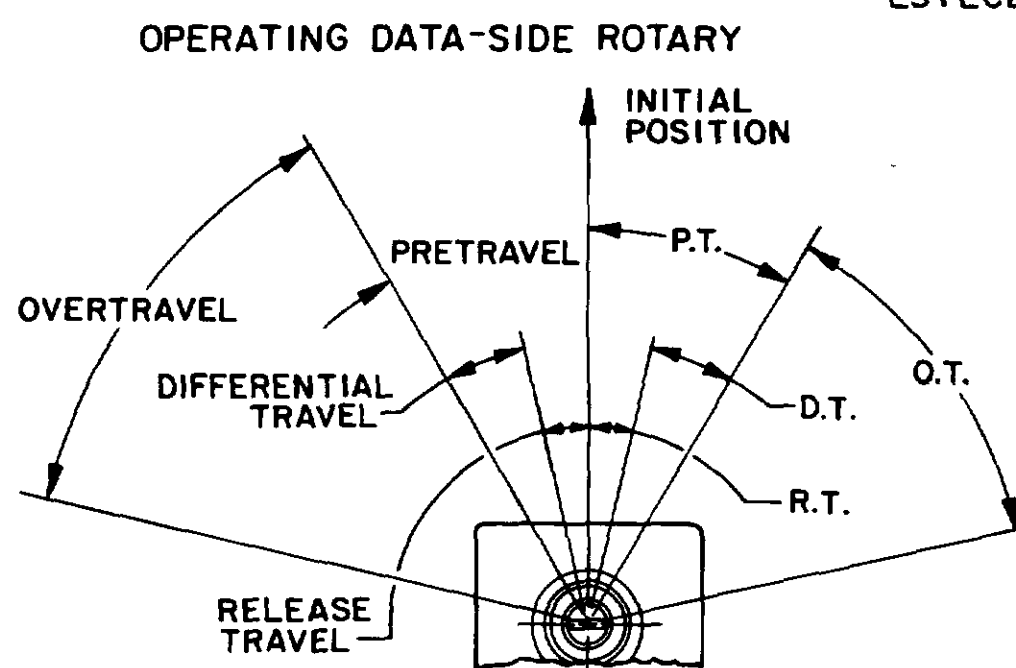
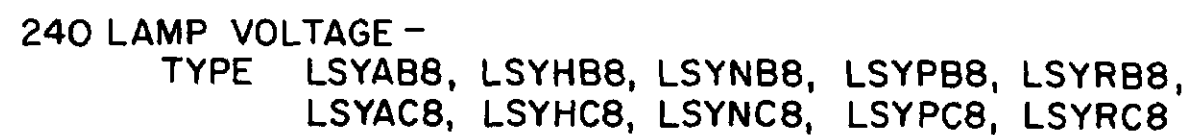
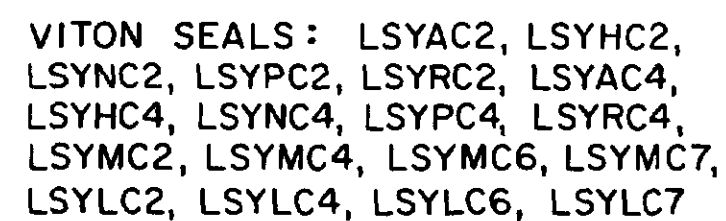


DOUBLE POLE



1.156

2.344

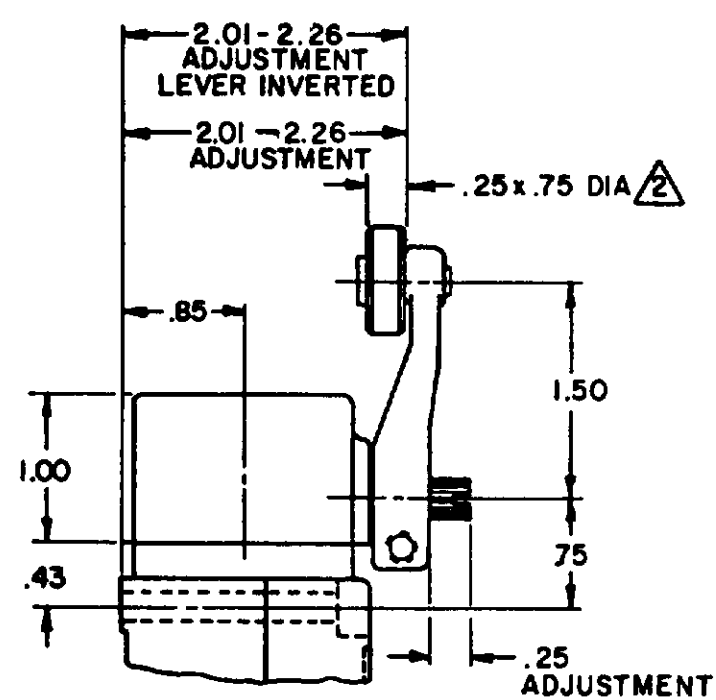
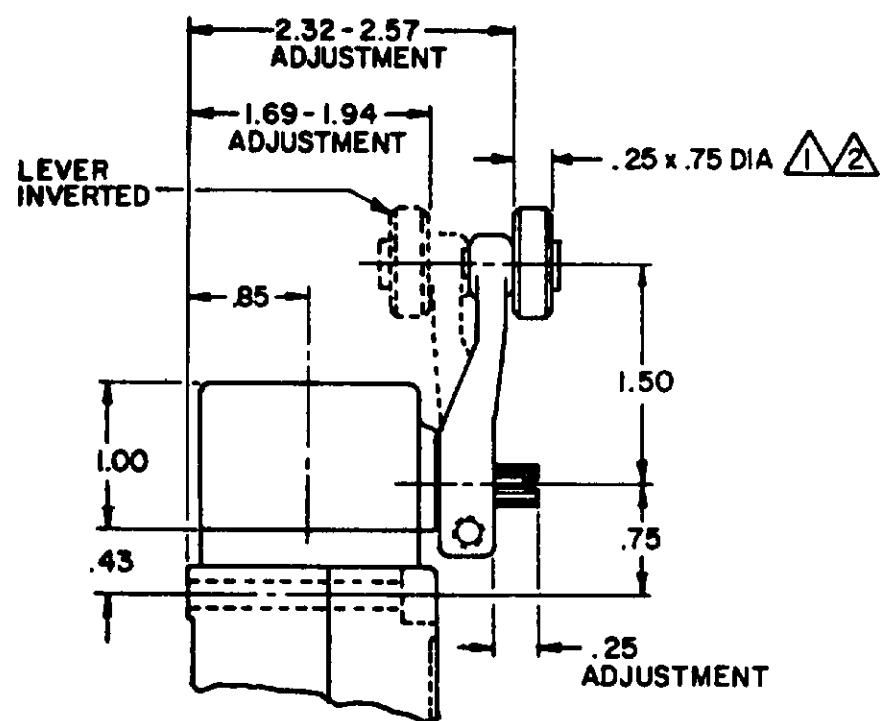
2.250

SEAL GASKET

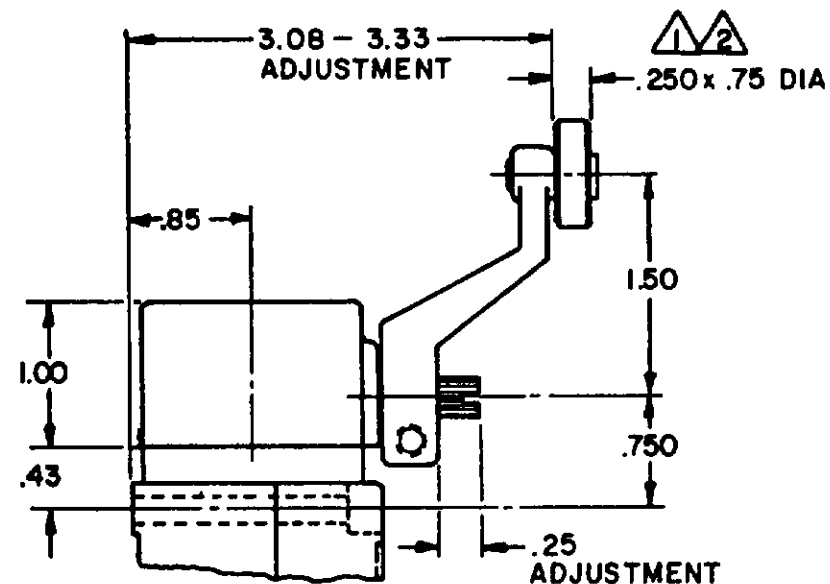
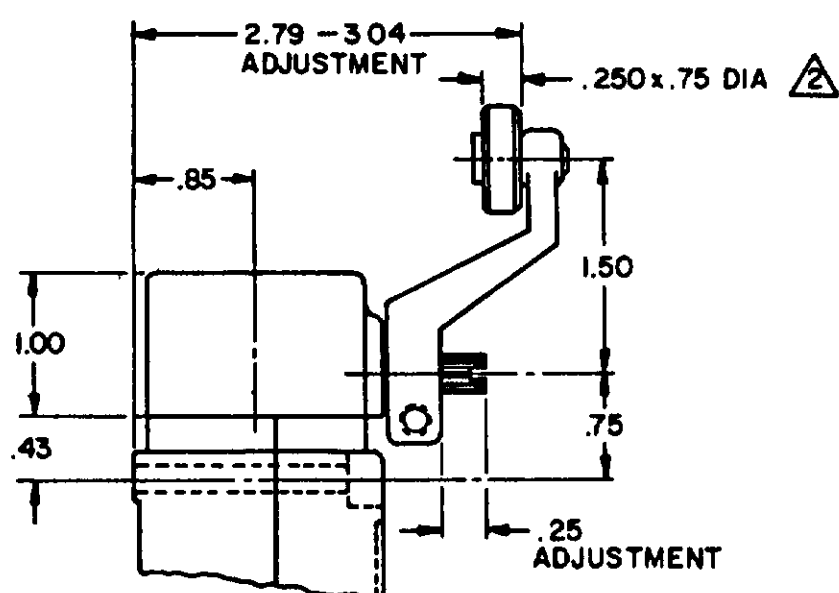
.500 DIA HOLE (.625 DIA MAX PANEL HOLE RECOMMENDED)

NO CONDUIT HOLE

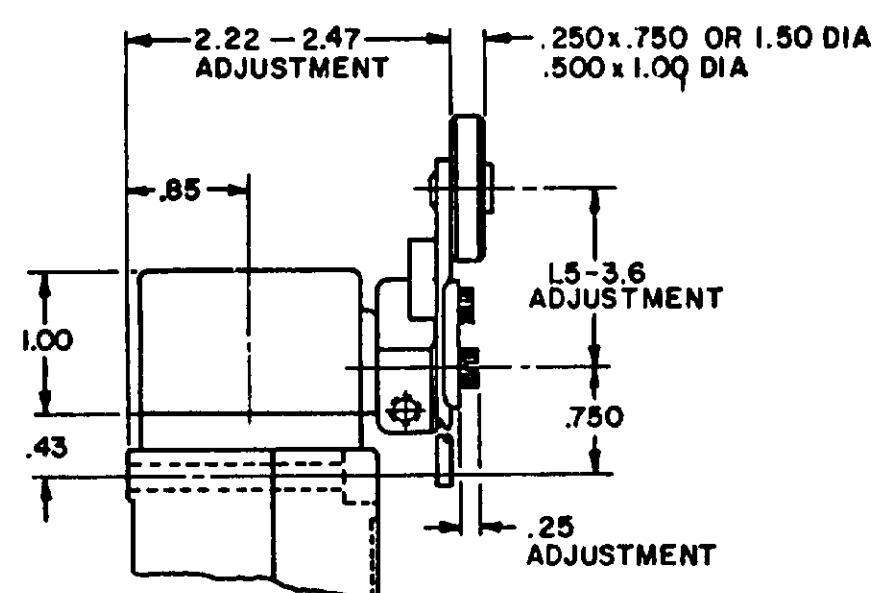
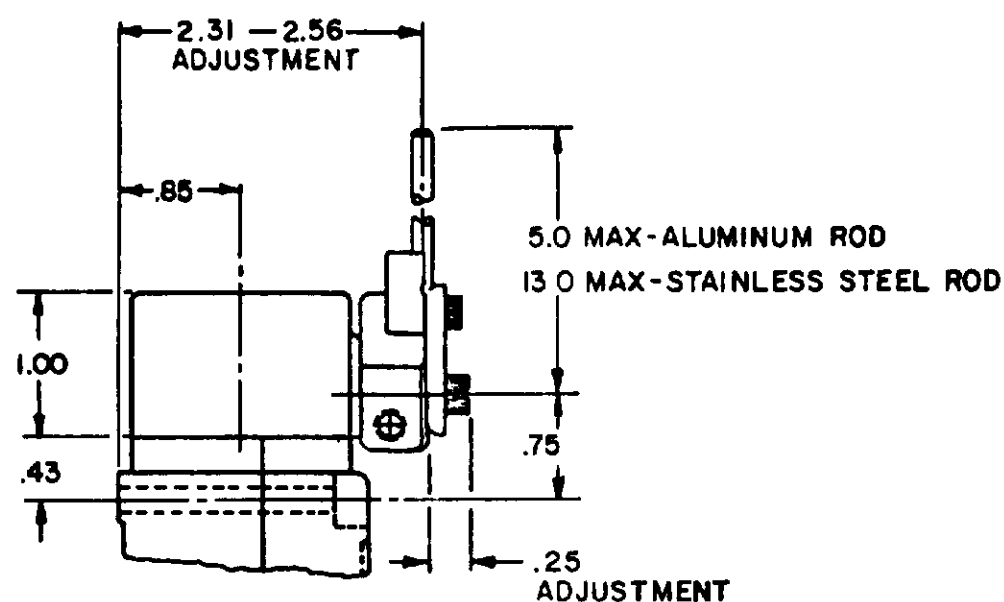
SIDE ROTARY CAM TRACKING



LSZ51 TYPE LEVERS

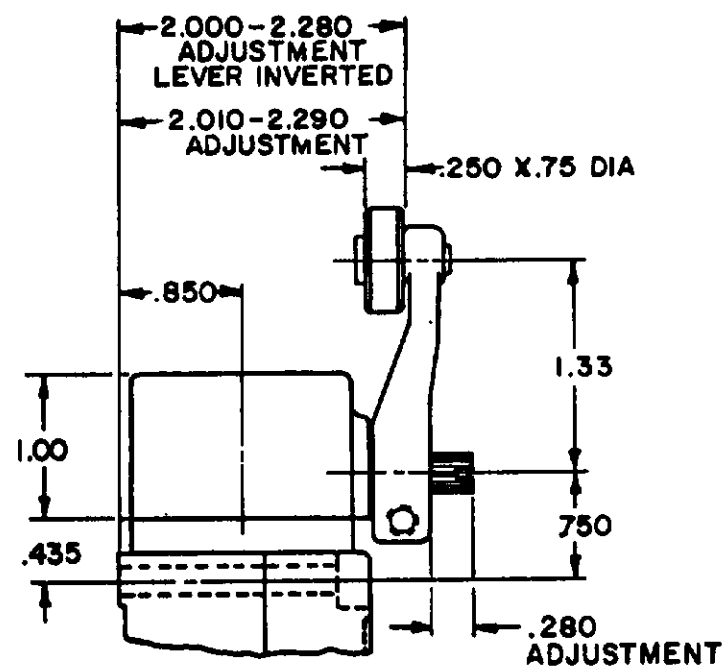
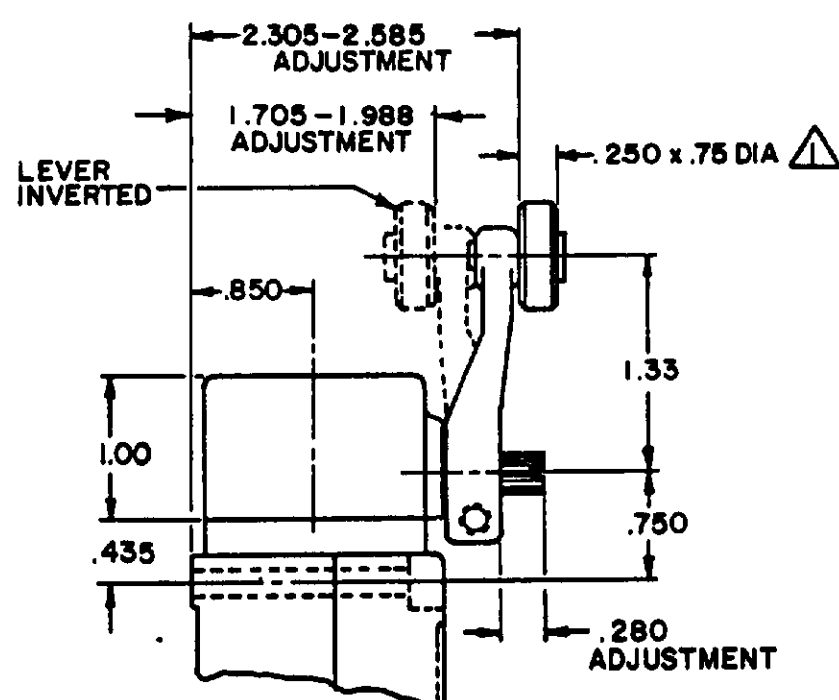


LSZ55 TYPE LEVERS



LSZ54 TYPE LEVER

LSZ52 TYPE LEVER



LSZ59 TYPE LEVERS

NOTES

- 1 - ALSO AVAILABLE IN .250 X 1.500 DIA NYLON, BUT LEVER CANNOT BE INVERTED
- 2 - FOR ADDITIONAL ROLLER WIDTHS AND/OR DIAMETERS REFER TO (M)
- 3 - FOR ADDITIONAL TYPES OF ROLLERS AND LEVERS REFER TO LSZ CHART 1 (M)

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MICRO SWITCH
a Honeywell Division

FEEDING CODE 31829

CHART 1

LSY SERIES

THIRD ANGLE PROJECTION

SCALE NONE

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE (.0) ± .030

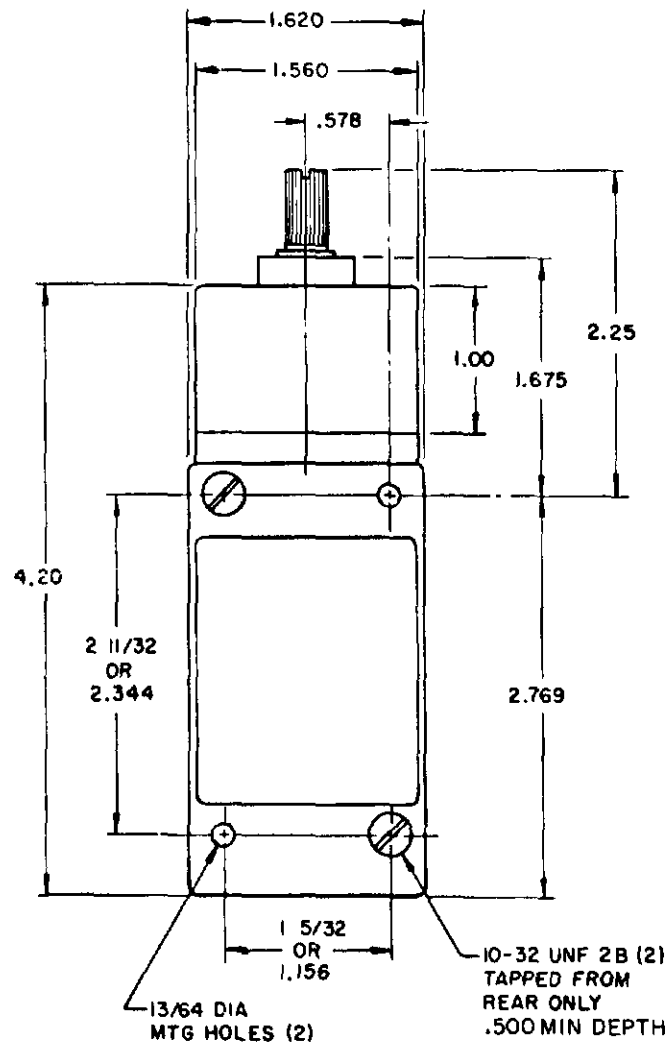
TWO PLACE (.00) ± .015

THREE PLACE (.000) ± .005

ANGLES ±

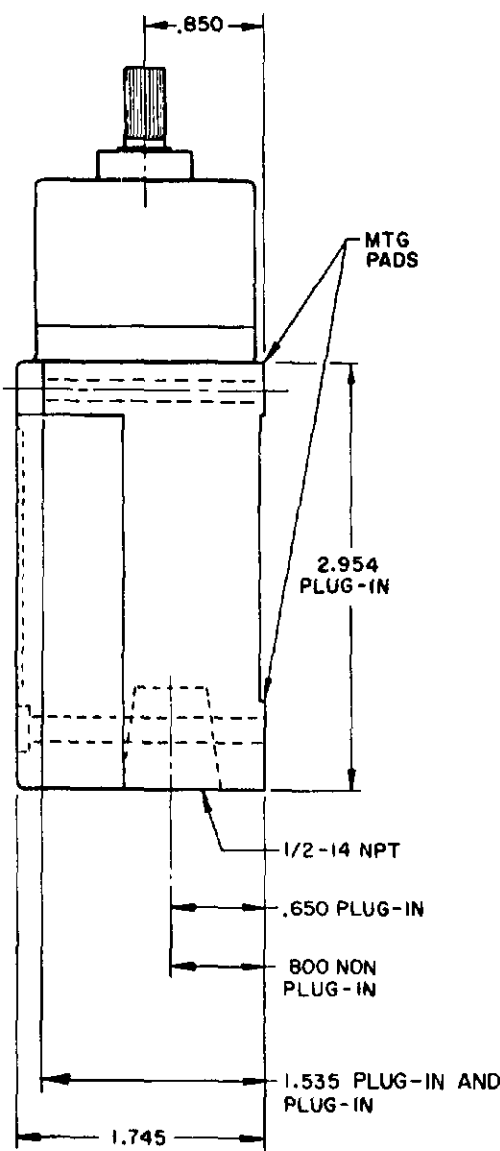
TOP ROTARY

SINGLE POLE

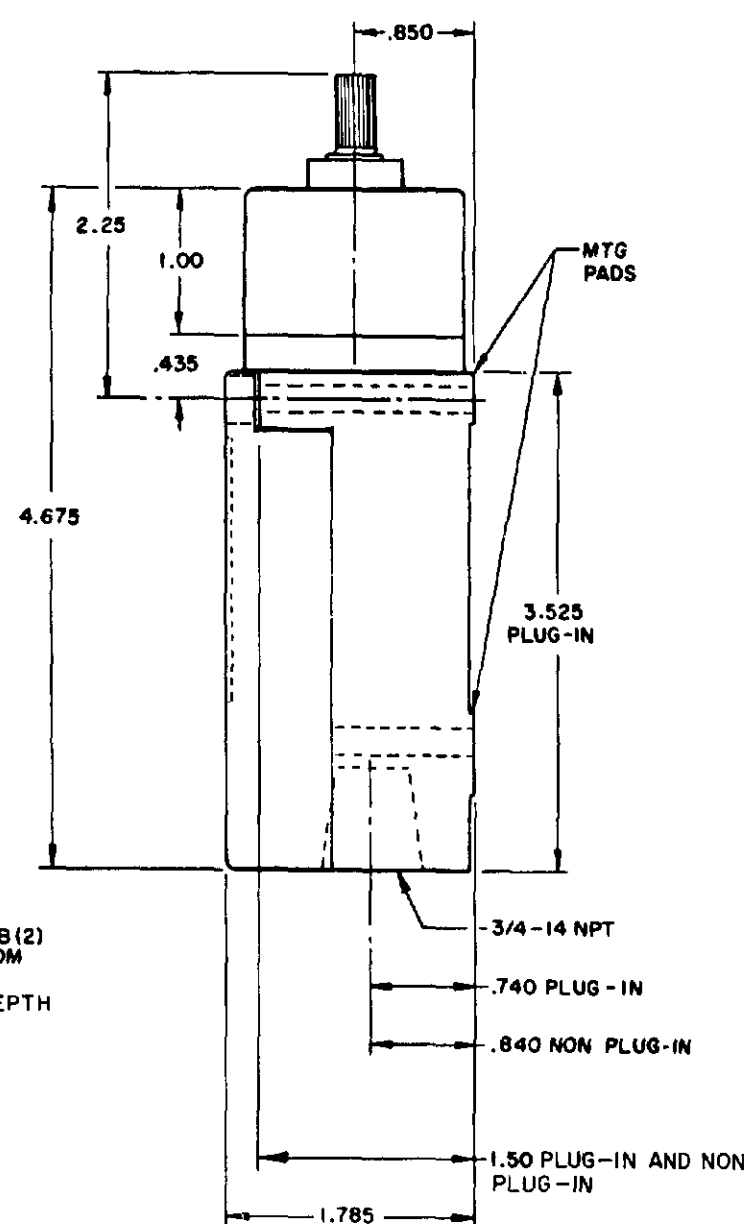
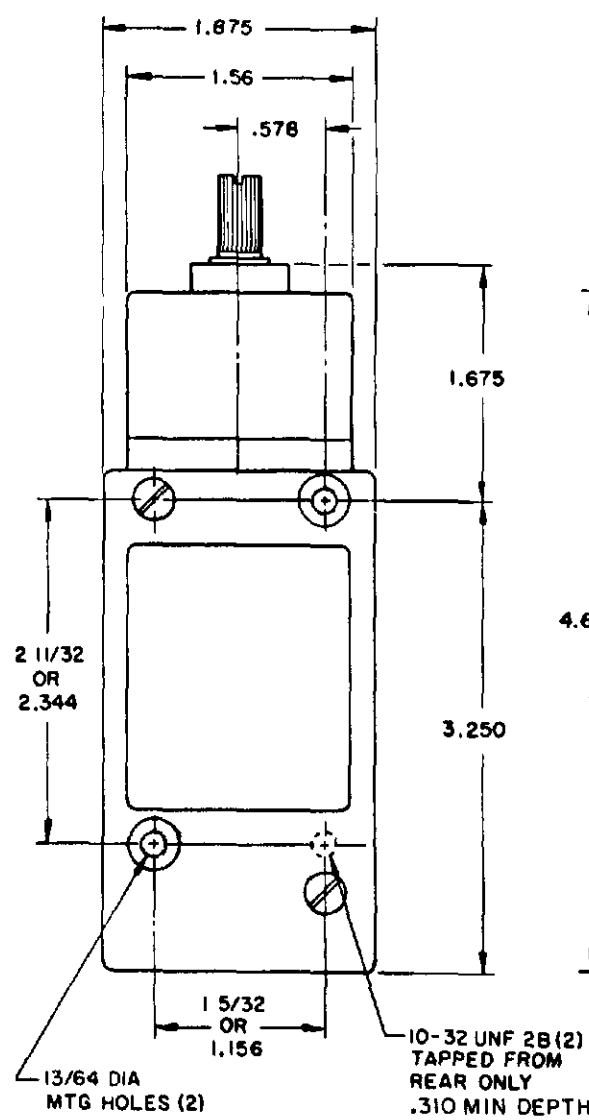


FLOUROSILICONE SEALS
LSYBB1 & LSYBB3

VITON SEALS
LSYBC1 & LSYBC3



DOUBLE POLE



FLOUROSILICONE SEALS
LSYBB2 & LSYBB4

LSYBB6 & LSYBB7 HAVE 1/2-14NPT
CONDUIT HOLE

VITON SEALS
LSYBC2 & LSYBC4, LSYBC6 & LSYBC7
HAVE 1/2-14NPT 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			
	SINGL. POL.		DOUBLE POL.	
	MAKE	BREAK	MAKE	BREAK
120	60	6	10	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

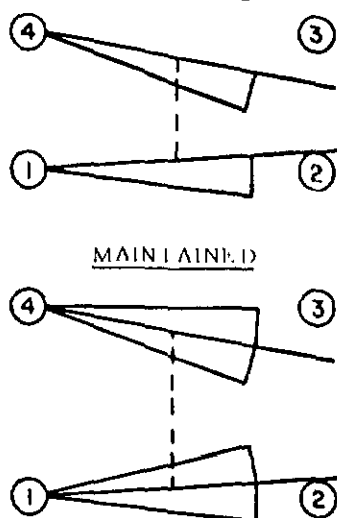
ELECTRONIC DUTY BASIC SWITCH
10 AMP CONT.

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

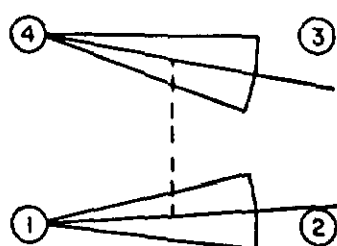
WIRING BASIC SWITCH (SAME POLARITY MUST BE OBSERVED FOR EACH POLE)

SINGLE POLE

MOMENTARY



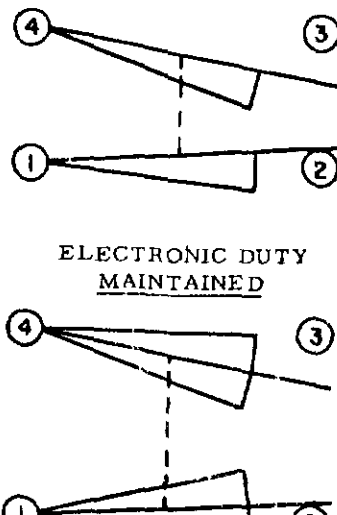
MAINTAINED



SINGLE POLE

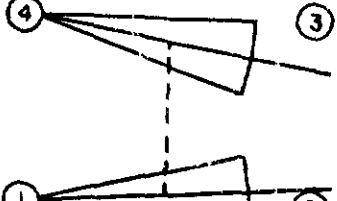
ELECTRONIC DUTY

MOMENTARY

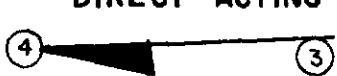


ELECTRONIC DUTY

MAINTAINED

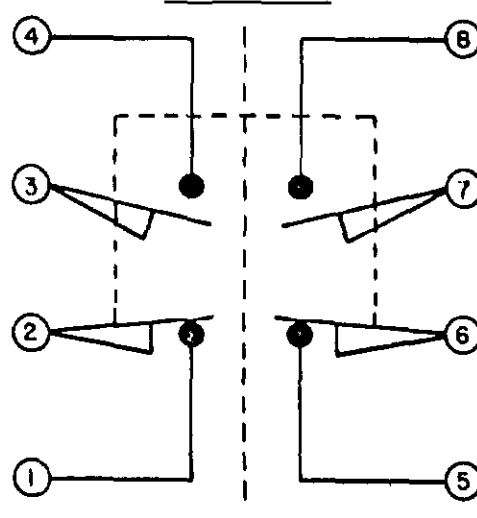


DIRECT ACTING

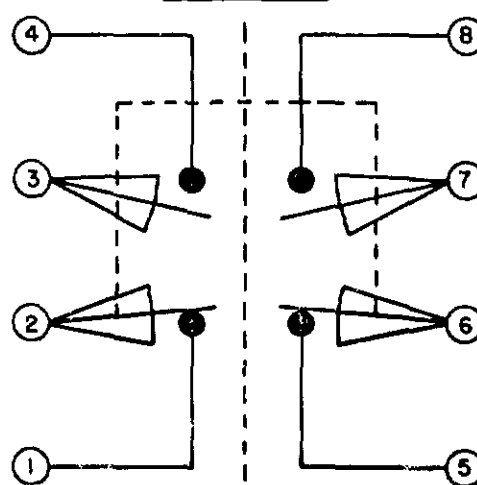


DOUBLE POLE

MOMENTARY



MAINTAINED



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

NOTES:

1 - ALL UNITS AVAILABLE WITH
FLOUROSILICONE AND VITON SEALS

2 - DIFFERENTIAL TRAVEL ON ALL
OPERATING CHARACTERISTICS NOT
APPLICABLE

SCALE NONE
DO NOT SCALE PRINT

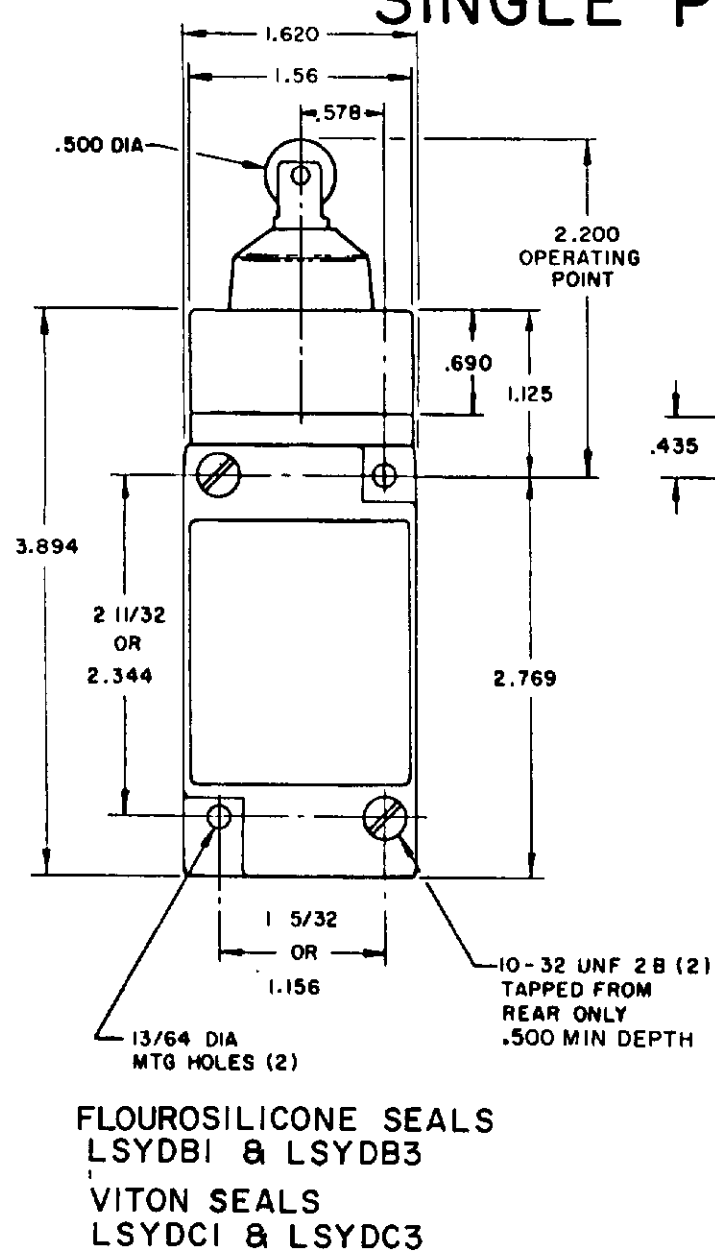
MICRO SWITCH
FREEPORT, L.I., N.Y. U.S.A.
A DIVISION OF HONEYWELL
FID. MFG. CODE 91918

SWITCH - ENCLOSED

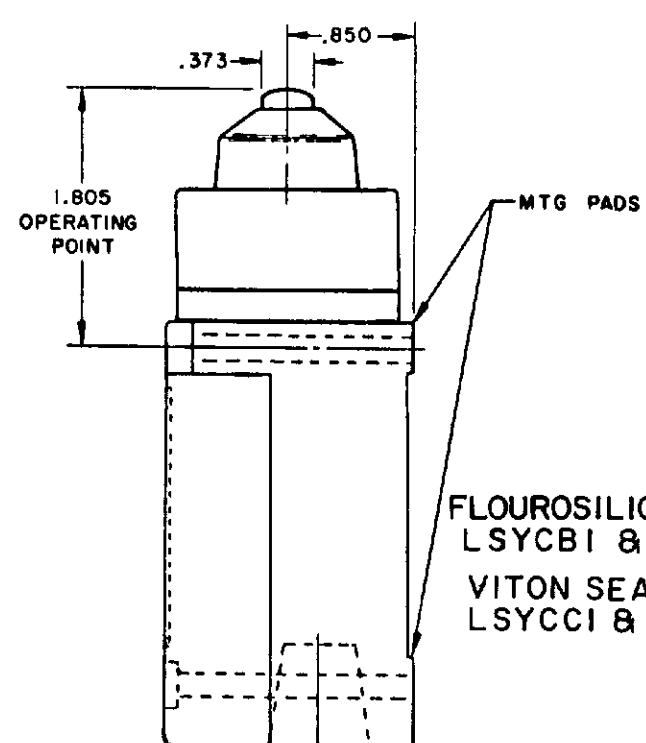
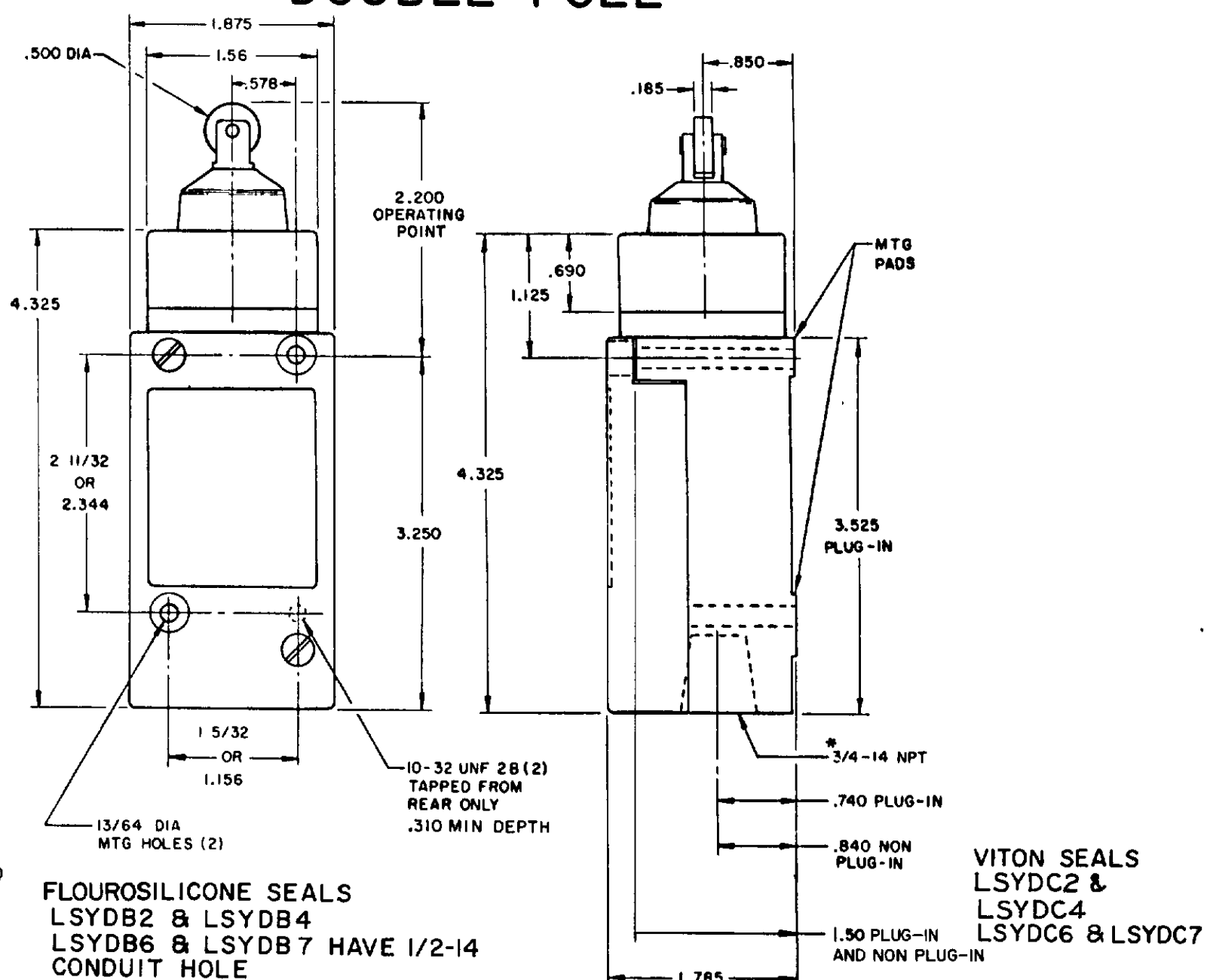
LSY SERIES
CHART 1

PLUNGER TYPE TOP

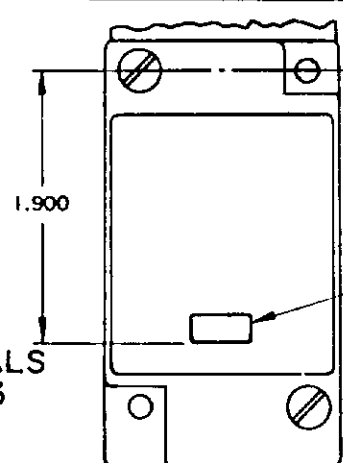
SINGLE POLE



DOUBLE POLE



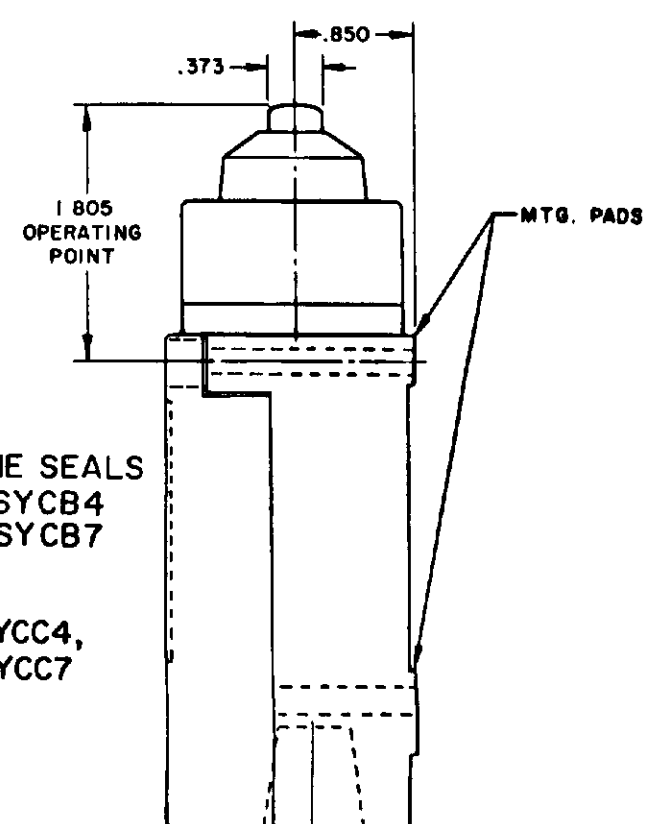
SINGLE POLE PLUG-IN ONLY
WITH INDICATOR LAMP



— 180 X .400 LENS
(FLUSH WITH HOUSING)

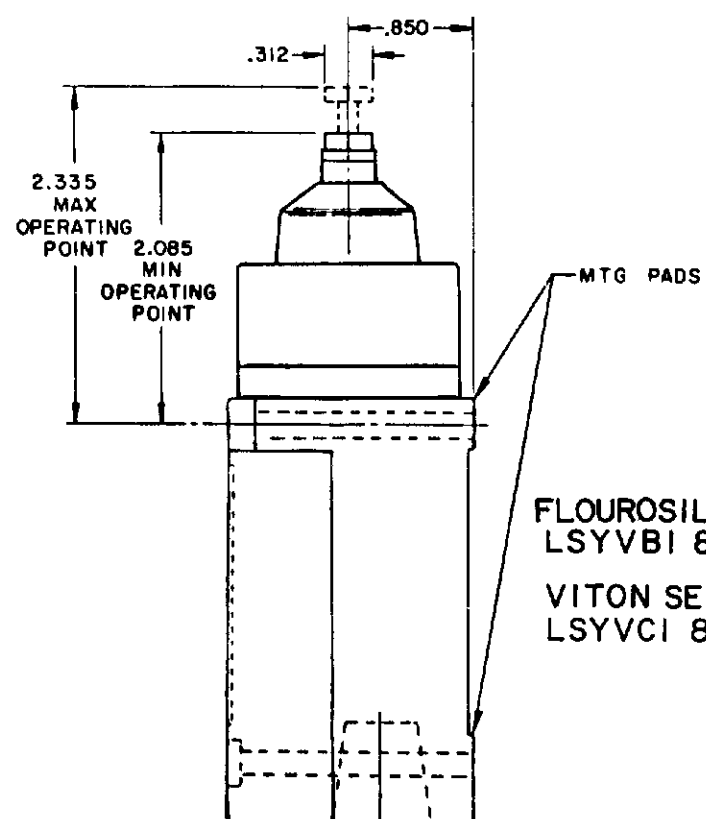
FLOUROSILICONE SEALS
LSYCB1 & LSYCB3
VITON SEALS
LSYCC1 & LSYCC3

120 LAMP VOLTAGE -
LSYCB 5, LSYDB5, LSYVB5
LSYCC5, LSYDC5, LSYVC5
240 LAMP VOLTAGE -
LSYCB8, LSYDB8, LSYVB8
LSYCC8, LSYDC8, LSYVC8

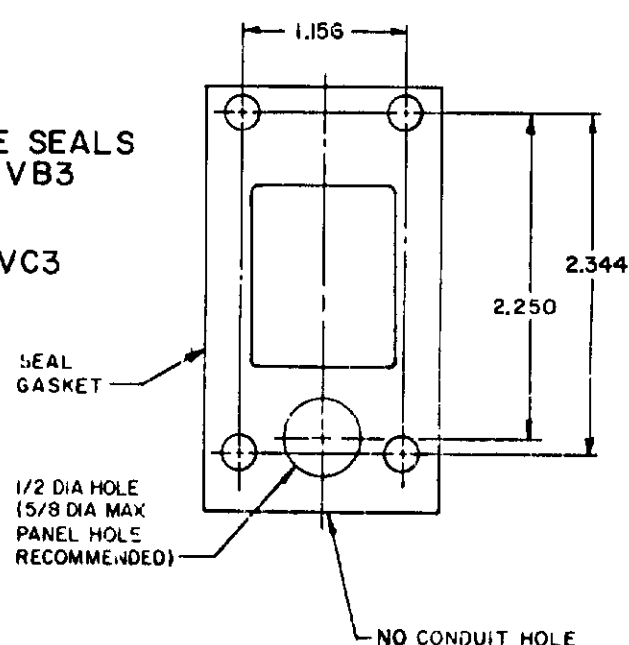


FLOUROSILICONE SEALS
LSYCB2 & LSYCB4
LSYCB6 & LSYCB7

VITON SEALS
LSYCC2 & LSYCC4,
LSYCC6 & LSYCC7

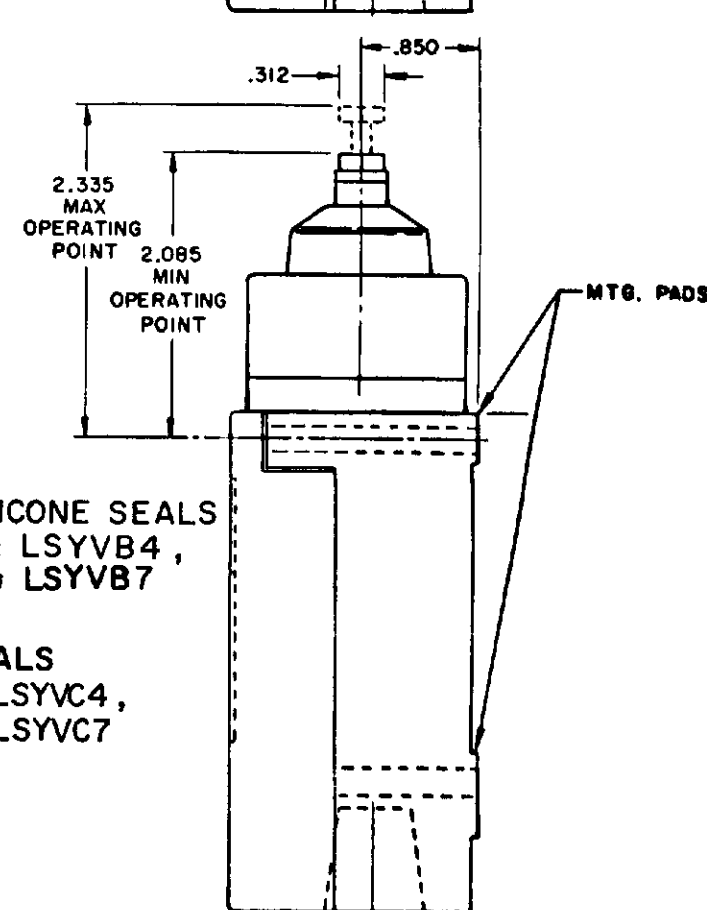


MANIFOLD MOUNT (PLUG-IN ONLY)
SINGLE POLE AND DOUBLE POLE
TYPE LSYA THROUGH LSYW SERIES



FLOUROSILICONE SEALS
LSYVB2 & LSYVB4,
LSYVB6 & LSYVB7

VITON SEALS
LSYVC2 & LSYVC4,
LSYVC6 & LSYVC7



NOTES:
1 - ALL UNITS AVAILABLE WITH
FLOUROSILICONE AND VITON SEALS

MICRO SWITCH
FREEDPORT, TEXAS U.S.A.
A DIVISION OF MONEYSWELL
FID. MFG. CODE 91820

SWITCH - ENCLOSED

CHART 1

LSY SERIES

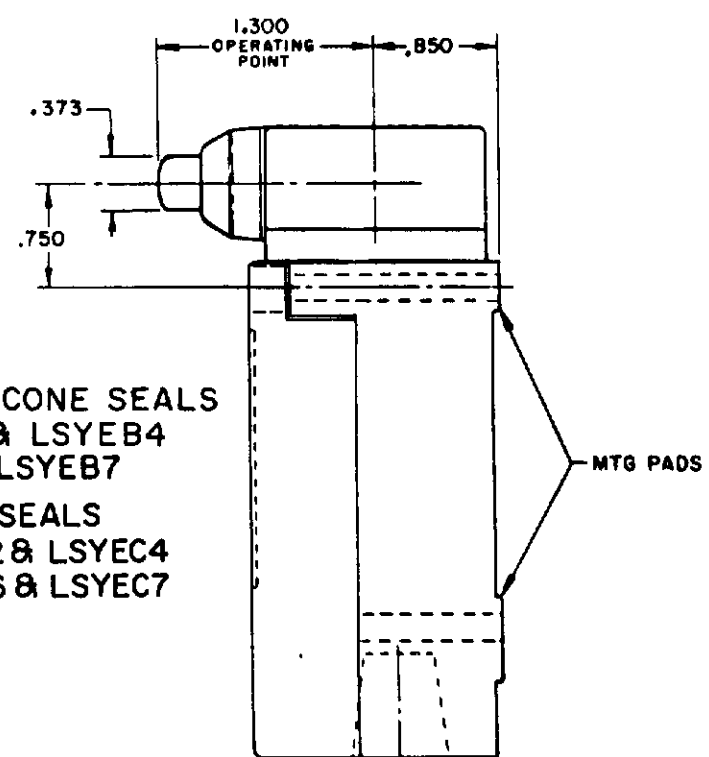
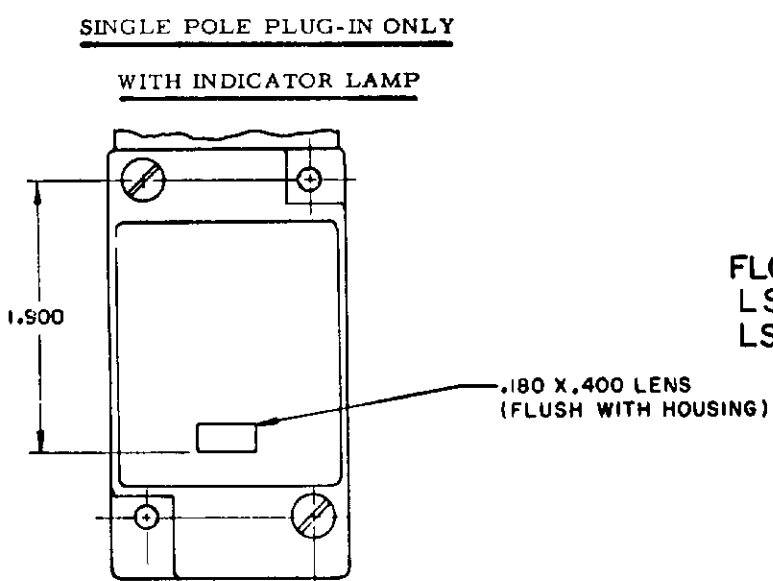
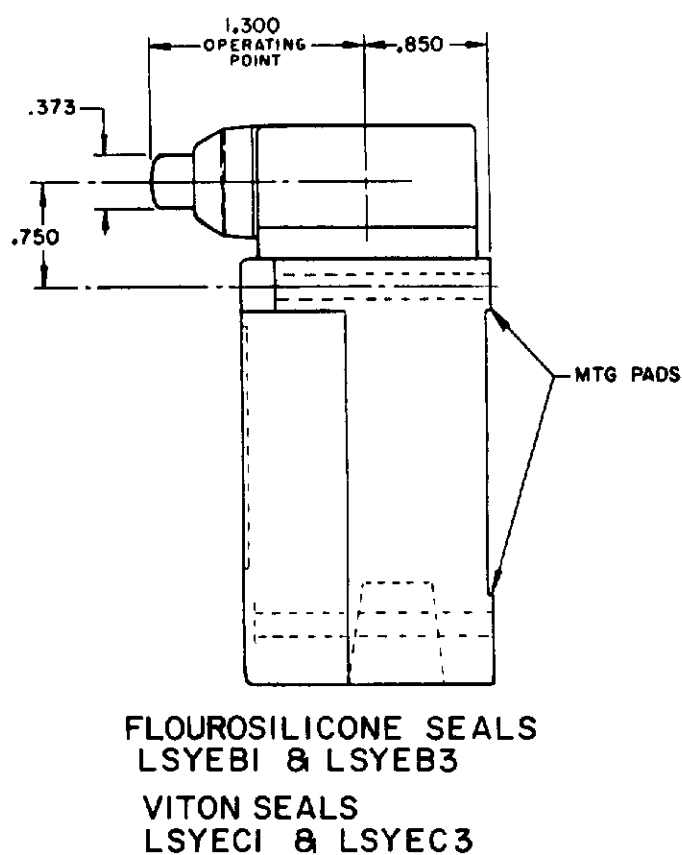
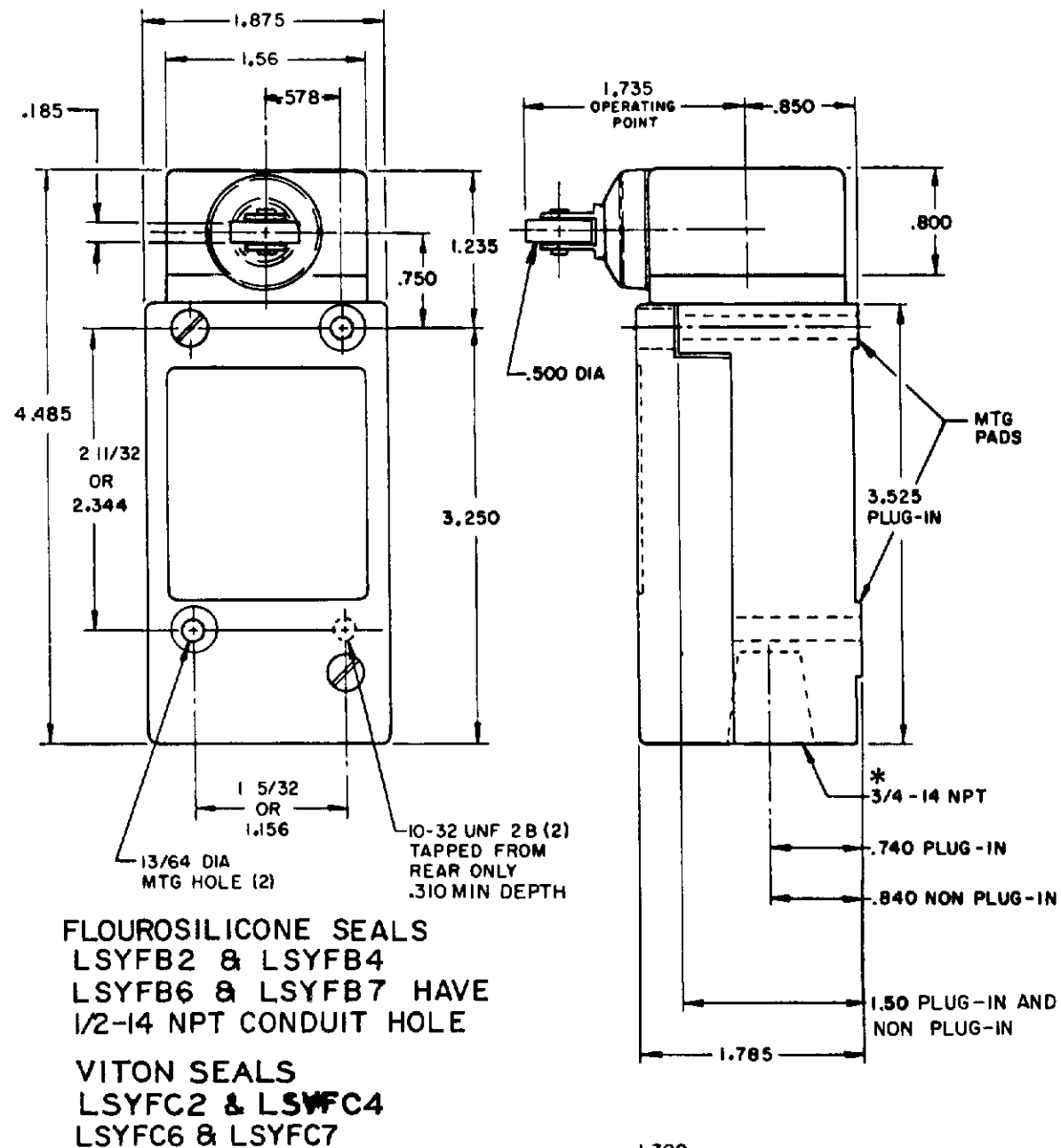
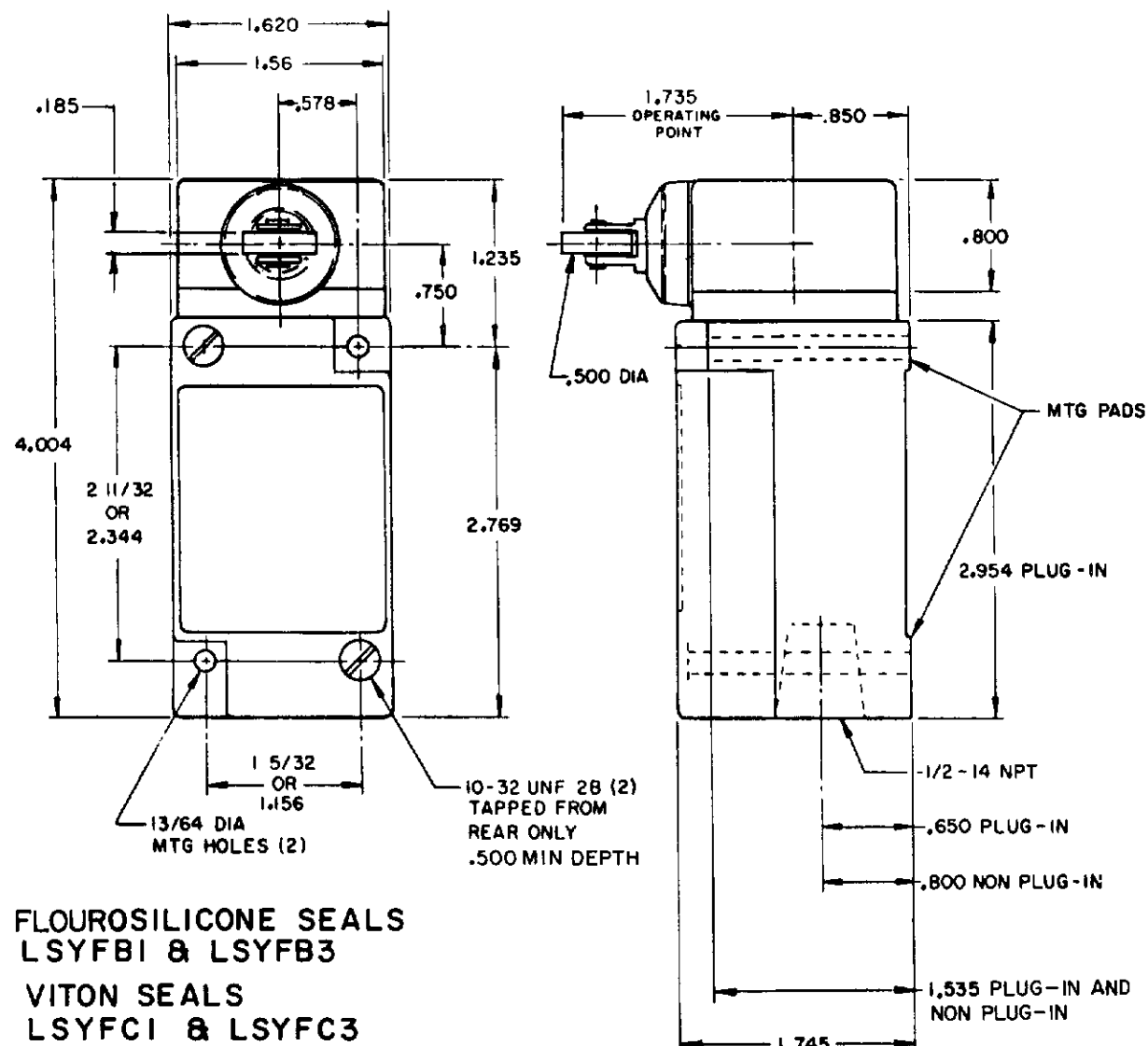
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MONEYWELL THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH

DO NOT SCALE PRINT
SCALE NONE

SIDE PLUNGER TYPE

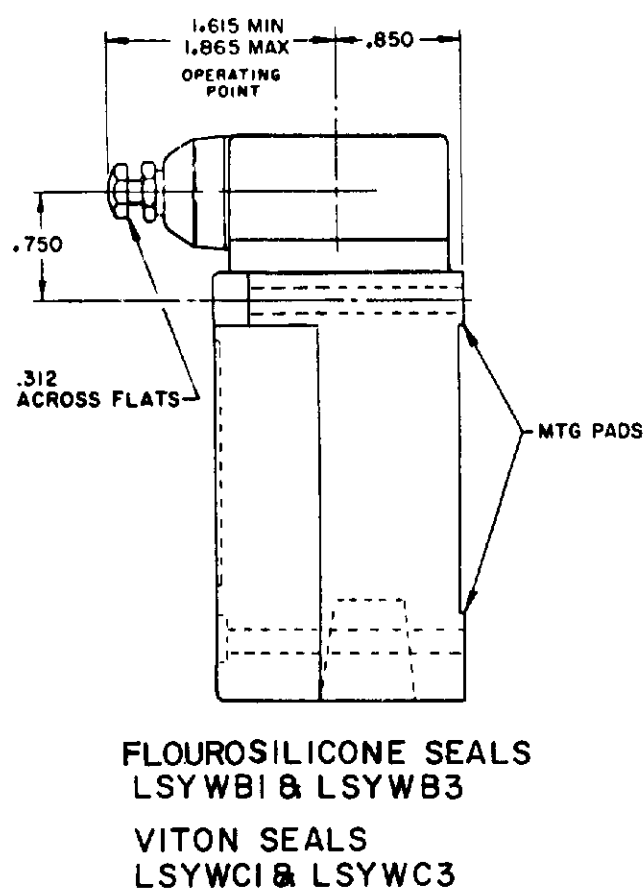
SINGLE POLE

DOUBLE POLE

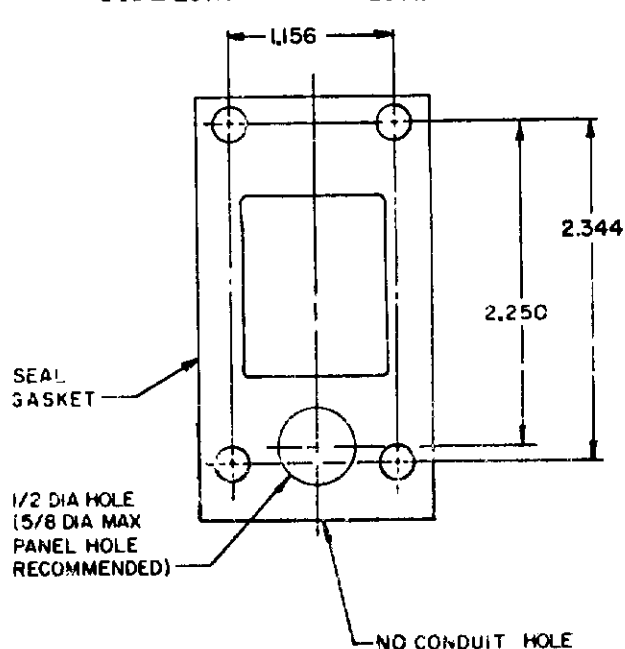


120 LAMP VOLTAGE -
LSYFB5, LSYEB5, LSYWB5
LSYFC5, LSYEC5, LSYWC5

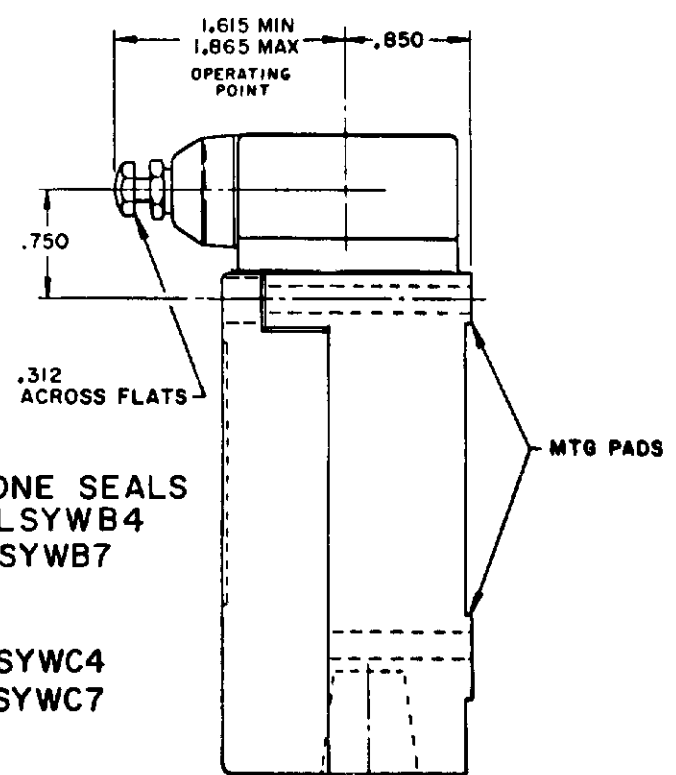
240 LAMP VOLTAGE -
LSYFB8, LSYEB8, LSYWB8
LSYFC8, LSYEC8, LSYWC8



MANIFOLD MOUNT (PLUG-IN ONLY)
SINGLE POLE AND DOUBLE POLE
TYPE LSYA THROUGH LSYW SERIES



FLOUROSILICONE SEALS
LSYWB2 & LSYWB4
LSYWB6 & LSYWB7
VITON SEALS
LSYWC2 & LSYWC4
LSYWC6 & LSYWC7



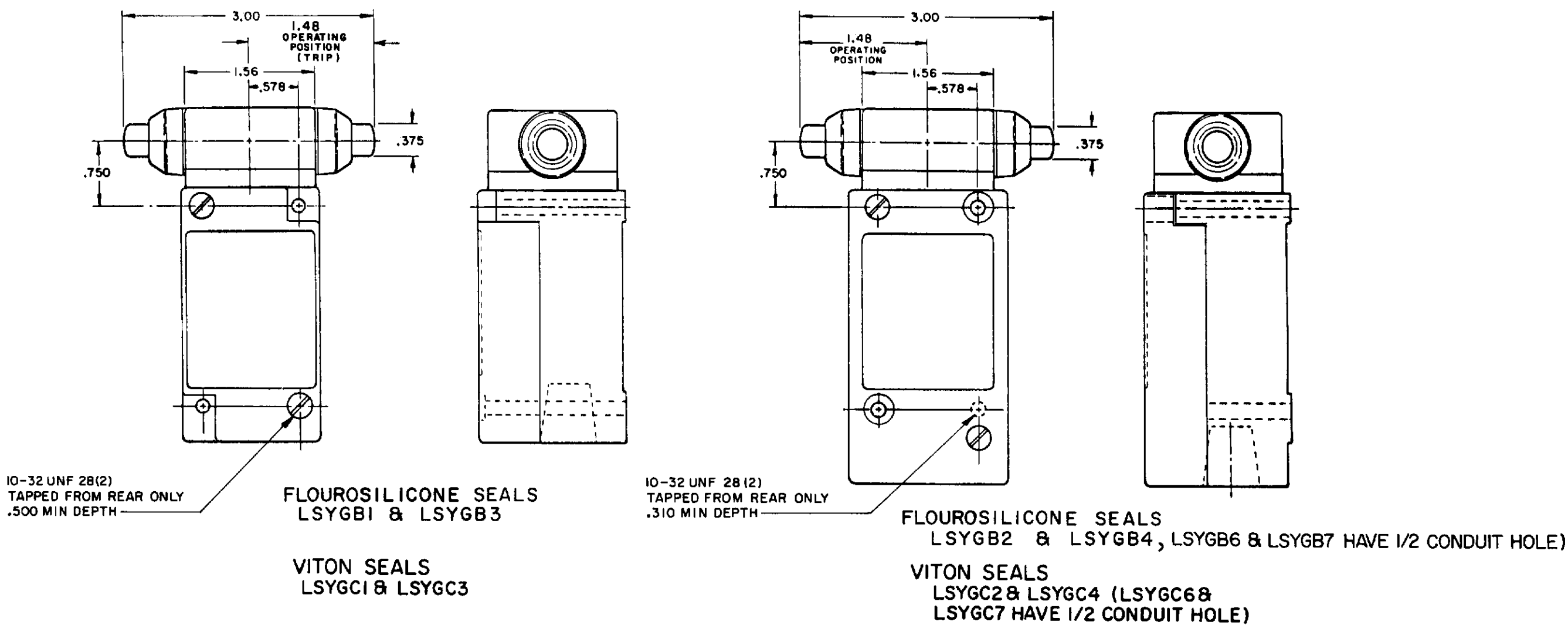
NOTES:
1 - ALL UNITS AVAILABLE WITH
FLOUROSILICONE AND VITON SEALS

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FED. REG. CO. 9-438

SWITCH - ENCLOSED

LSY SERIES
CATALOG LISTING
CHART 1

SCALE NONE
DO NOT SCALE PRINT



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

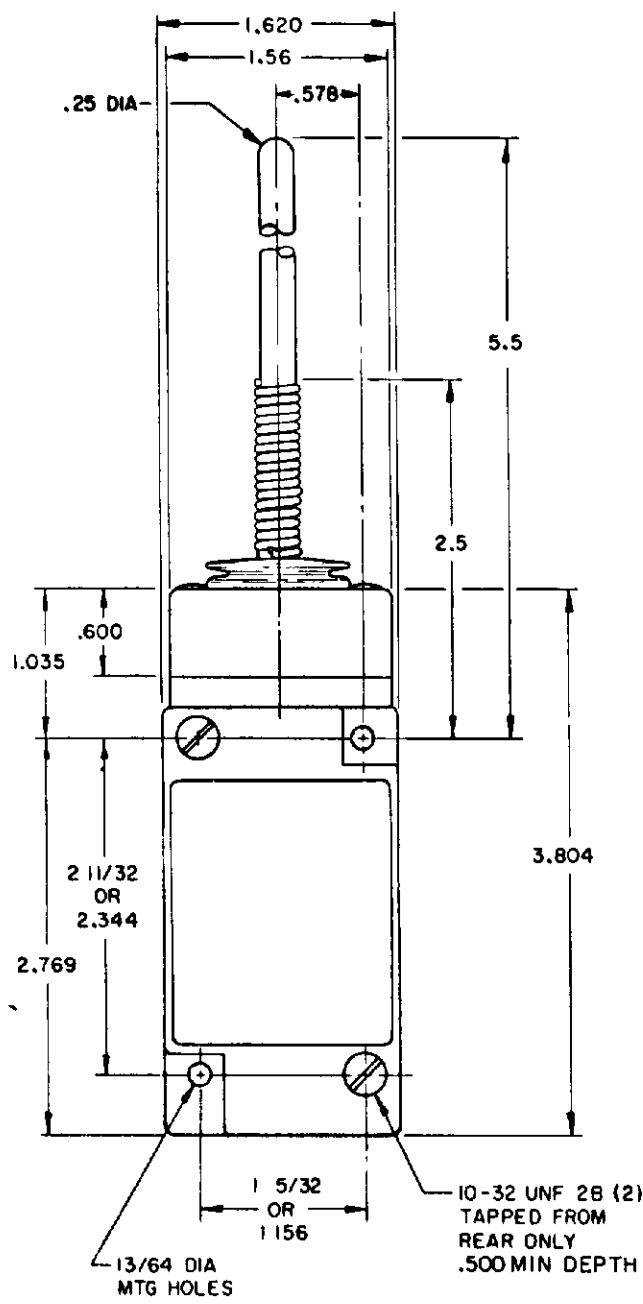
OPERATING POINT GIVEN IN RELATION TO TOP MOUNTING HOLE										TOP PLUNGER TYPES		
CHARACTERISTICS	LSYC PLUNGER		LSYD ROLLER PLUNGER		LSYV ADJ PLUNGER		SEQUENCE BASIC					
							LSYC	LSYD	LSYV			
PRETRAVEL (MAX)	.070		.070		.070		1ST STEP .070 2ND STEP .016 MIN ADD'L					
DIFFERENTIAL TRAVEL (MAX)	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		.190		.170					
OPERATING FORCE (MAX)	4 LBS		4 LBS		4 LBS		4 LBS					
OPERATING POINT	1.805 ± .030		2.200 ± .040		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		7 LBS					

OPERATING POINT GIVEN IN RELATION TO CENTER OF HEAD										SIDE PLUNGER TYPES		
CHARACTERISTICS	LSYE PLUNGER	LSYF ROLLER PLUNGER	LSYW ADJ PLUNGER	LSYG PLUNGER MAINTAINED	SEQUENCE BASIC							
					LSYE	LSYF	LSYW					
PRETRAVEL (MAX)	.100	.100	.100	.170	1ST STEP .100 2ND STEP .020 MIN ADD'L							
DIFFERENTIAL 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	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							

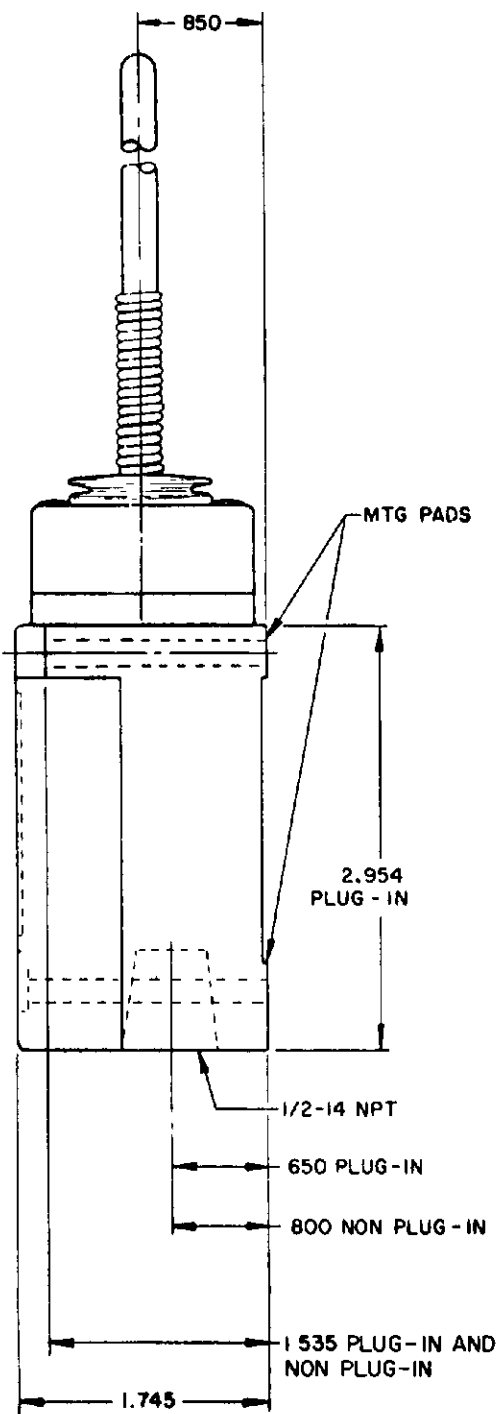
WOBBLE STICK

SINGLE POLE

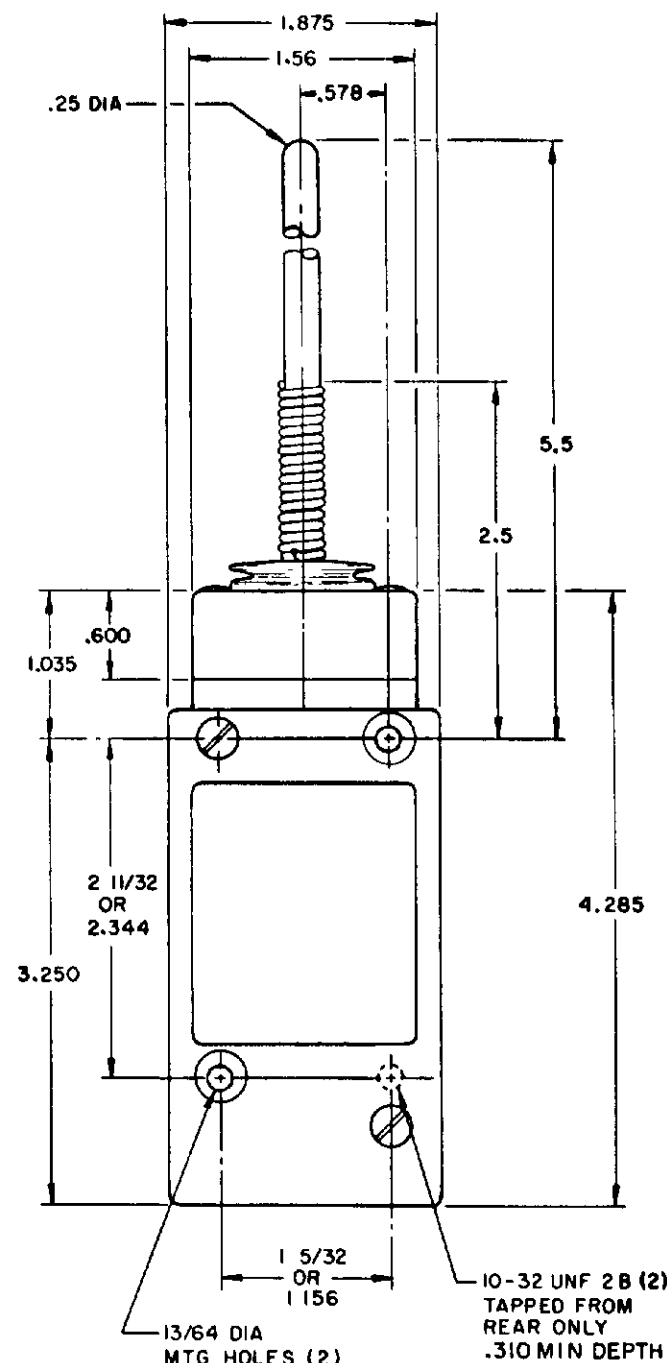
DOUBLE POLE



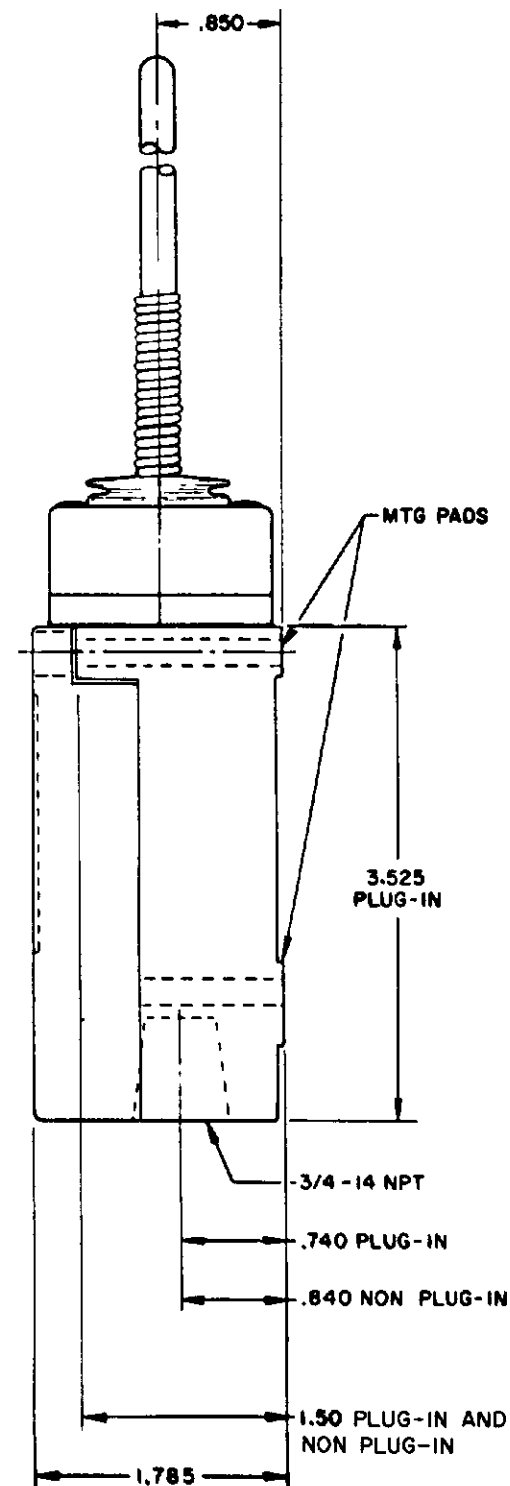
**PLASTIC EXTENSION
TYPE 7A ACTUATOR**



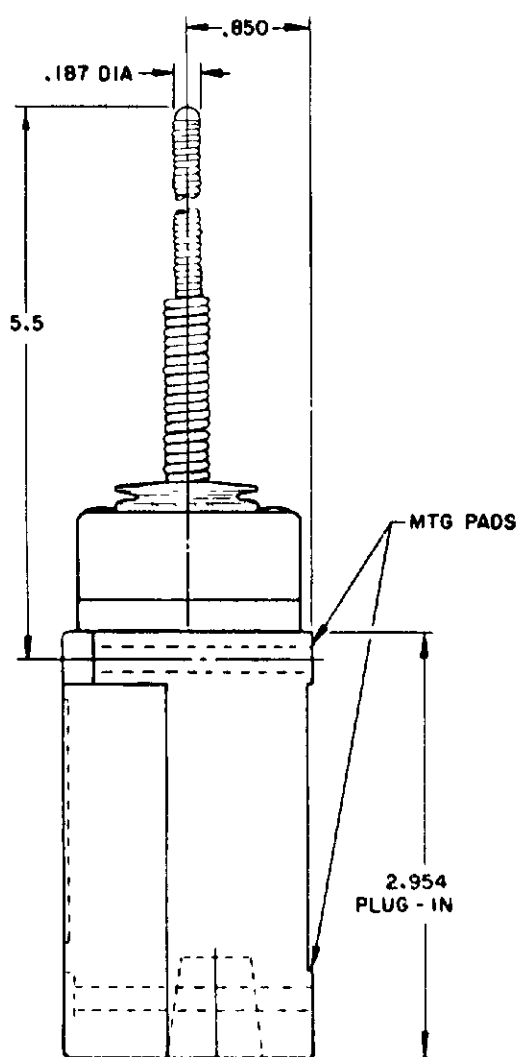
**REPLACEMENT ACTUATOR
LSZ 4009**



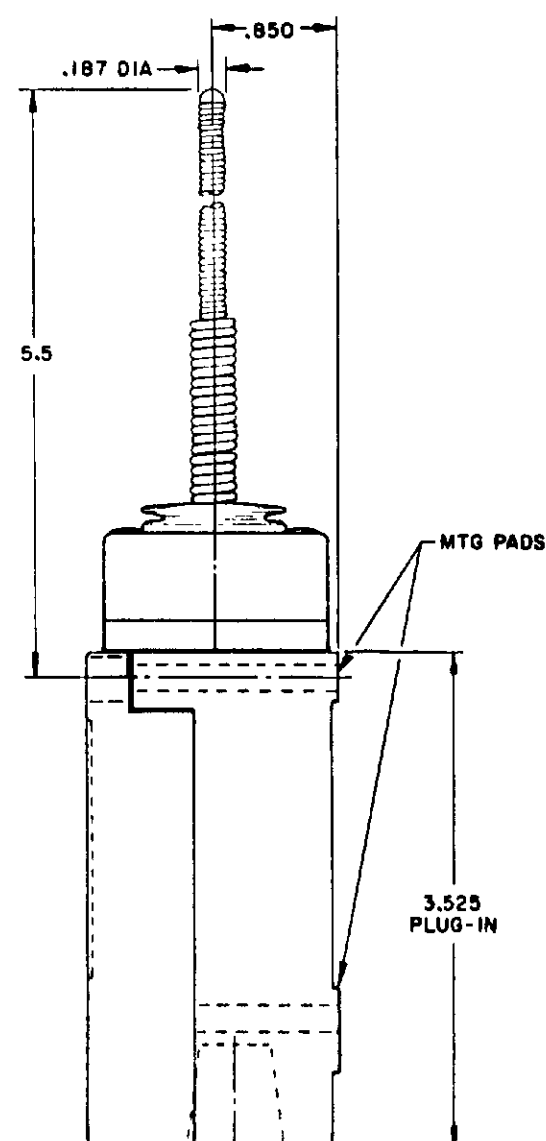
**PLASTIC EXTENSION
TYPE 7A ACTUATOR**



**REPLACEMENT ACTUATOR
LSZ 4011**

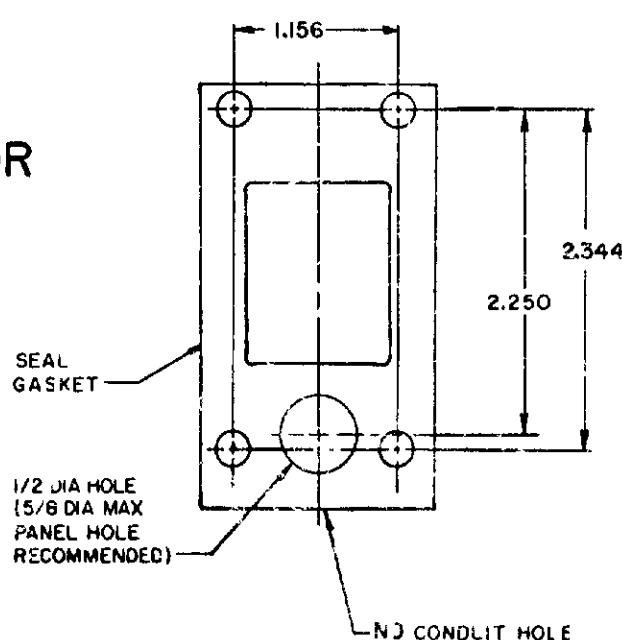


**CABLE EXTENSION
TYPE 7N ACTUATOR**



**CABLE EXTENSION
TYPE 7N ACTUATOR**

MANIFOLD MOUNT (PLUG-IN ONLY)
SINGLE POLE AND DOUBLE POLE
TYPE LSYA THROUGH LSYW SERIES



NOTES:
1 - ALL UNITS AVAILABLE WITH
FLOUROSILICONE AND VITON SEALS

MICRO SWITCH
FREEPORT ILLINOIS U.S.A.
A DIVISION OF HONEYWELL

SWITCH-ENCLOSED

CHART 1

LSY SERIES

SCALE NONE
DO NOT SCALE PRINT

Technical drawing of a mechanical assembly. The drawing shows a vertical shaft with a diameter of .850. A spring is mounted on the shaft, with a height of 2.63. The total height of the assembly is 13.0. The base of the assembly is labeled MTG PADS.

120 LAMP VOLTAGE TYPE-LSYJB5 & LSYJC5
240 LAMP VOLTAGE TYPE-LSYJB8 & LSYJC8

FLOUROSILICONE SEALS
LSYJBI & LSYJB3

VITON SEALS
LSYJC1 & LSYJC3

CAT WHISKER

A cross-sectional diagram of a mechanical assembly. The diagram shows a central vertical shaft or rod passing through several layers. At the top, there is a dimension of .850 across the width of the upper section. Below this, a thin layer is labeled ".047 DIA". Further down, a coiled spring is shown, with a dimension of 2.56 indicating its height. Below the spring are two distinct rectangular blocks representing seals. The first seal is labeled "FLOUROSILICONE SEALS LSYKBI & LSYKB3". The second seal is labeled "VITON SEALS LSYKCI & LSYKC3". Below the Viton seals are dashed lines representing "MTG PADS" (mounting pads). A dimension line on the left side, marked with an asterisk (*), indicates the total height from the top of the assembly to the bottom of the mounting pads.

*
2.56
.850
.047 DIA
FLOUROSILICONE SEALS
LSYKBI & LSYKB3
VITON SEALS
LSYKCI & LSYKC3
MTG PADS

WIRE EXTENSION

*TYPE 8 A ACTUATOR 5.5 IN.
TYPE 8 B ACTUATOR 7.5 IN.
TYPE 8 C COIL ACTUATOR 5.5 IN

Technical drawing of a seal assembly cross-section. The drawing shows a central vertical assembly within a housing. Key dimensions and labels include:

- A horizontal dimension of **.850** at the top.
- A vertical dimension of **2.56** for the main body of the assembly.
- A vertical dimension marked with an asterisk (*) for the total height.
- A label **.047 DIA** pointing to a thin vertical feature.
- A label **MTG PADS** with leader lines pointing to the mounting pads on the right side.
- Labels on the left side: **SEALS**, **YKB4**, **YKB7**, **NPT**, and **LE**.

WIRE EXTENSION REPLACEMENTS

*TYPE 8A ACTUATOR 5.5 IN. - LSZ 4012
TYPE 8B ACTUATOR 7.5 IN. - LSZ 4013
TYPE 8C ACTUATOR 5.5 IN. - LSZ 4014

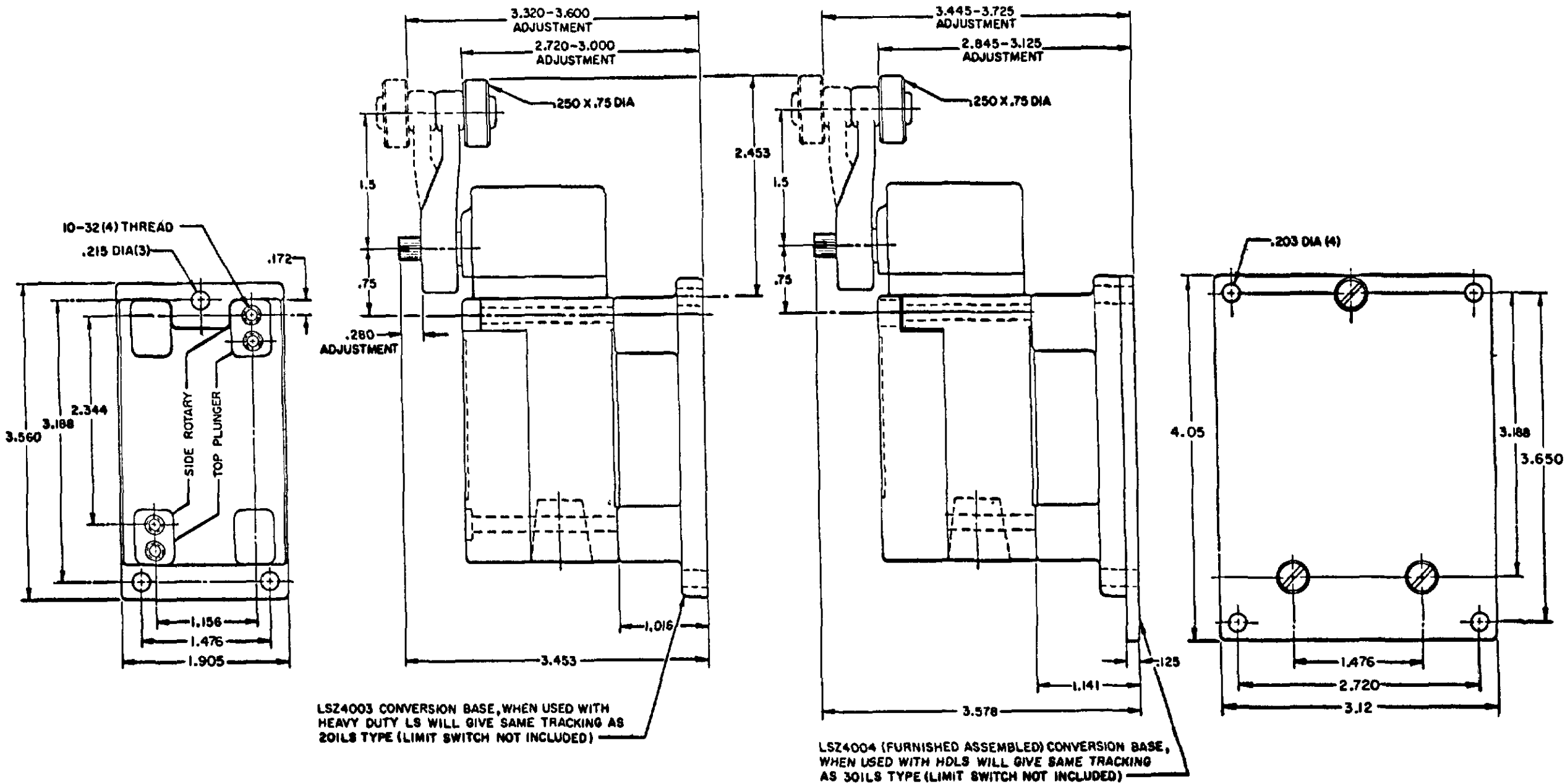
NOTE-
1 - ALL UNITS AVAILABLE WITH
FLOUROSILICONE AND VITON SEALS

	CAT WHISKER			WOBBLE STICK		
PRETRAVEL (APPROX) IN. RADIUS	5 1/2" COIL WIRE	5 1/2" WIRE	7 1/2" WIRE	ROD	CABLE	WIRE
	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

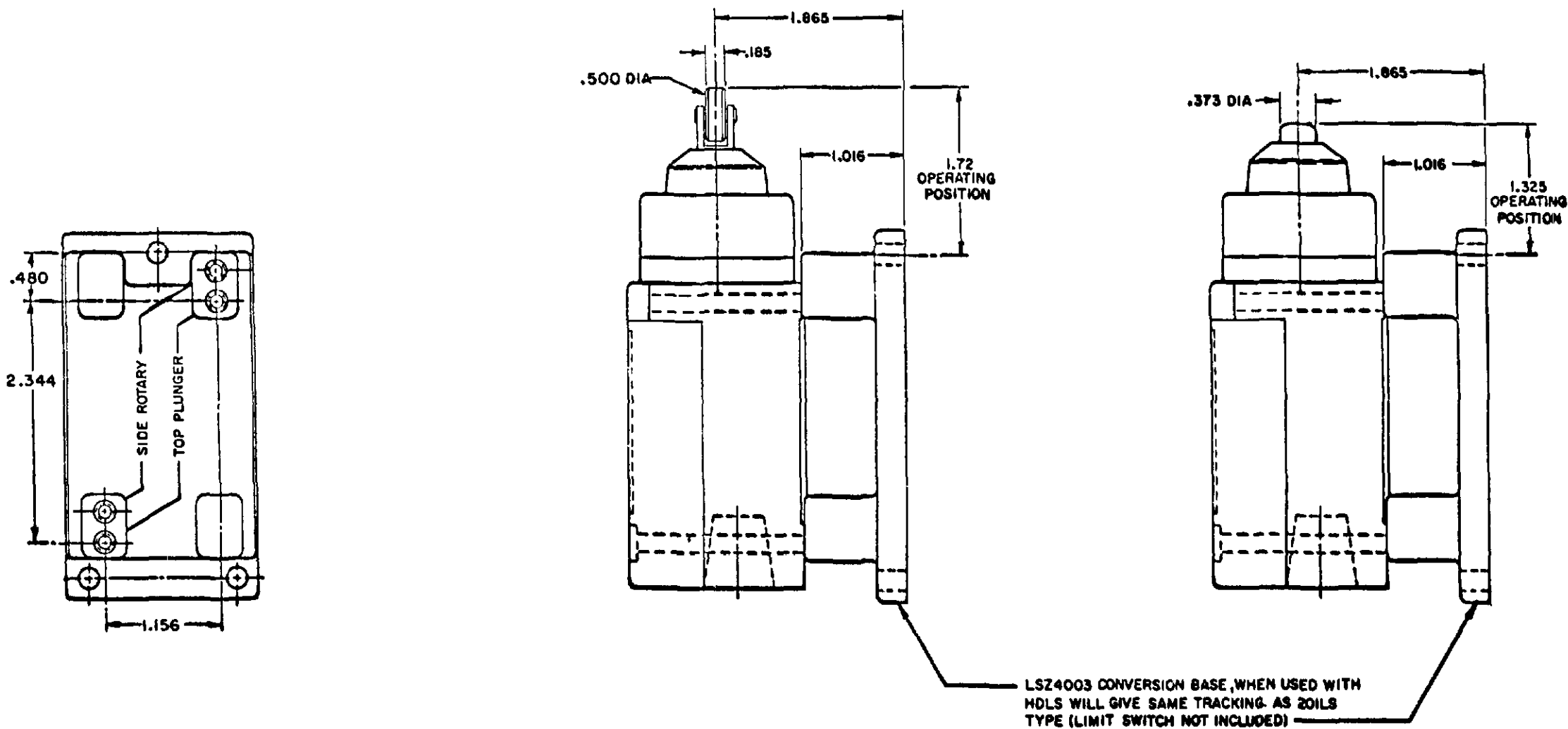
CONVERSION BASES

SINGLE POLE
(SIDE ROTARY)
LSZ 4003

DOUBLE POLE
(SIDE ROTARY)
LSZ4004



SINGLE POLE
TOP PLUNGER
LSZ4003



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SCALE FULL
DO NOT SCALE PRINT
LSY SERIES
CHART 1

**TEMPERATURE LIMITATIONS FOR
DEVICES WITH FLUORSILICONE (LSYAB**
AND VITON (LSYAC**) SEALS**

ALL HEAD
TYPES WITH
SEALS OF

CODE: 1 SATISFACTORY 2 FAIR 3 DOUBTFUL 4 UNSATISFACTORY

- 1 FLUORSILICONE SEAL (LSYAB**) FOR LOW TEMPERATURE APPLICATIONS
- 2 VITON SEALS (LSYAC**) FOR FIRE-RESISTANT FLUIDS
- 3 ALL EXCEPT A60

	LOW LIMIT	HIGH LIMIT
LSYAB	-40° F	+250° F
LSYAC	+10° F	+250° F
LSYBB	-20° F	+250° F
LSYBC	+30° F	+250° F
LSYCB	-40° F	+200° F
LSYCC	+10° F	+250° F
LSYDB	-40° F	+200° F
LSYDC	+10° F	+250° F
LSYEB	- 40° F	+200° F
LSYEC	+10° F	+250° F
LSYFB	- 40° F	+200° F
LSYFC	+10° F	+250° F
LSYGB	-20° F	+200° F
LSYGC	+30° F	+250° F
LSYHB	-20° F	+250° F
LSYHC	+30° F	+250° F
LSYJB	-40° F	+250° F
LSYJC	+30° F	+250° F
LSYKB	-20° F	+250° F
LSYKC	+30° F	+250° F
LSYLB	-40° F	+250° F
LSYLC	+10° F	+250° F
LSYMB	-40° F	+250° F
LSYMC	+10° F	+250° F
LSYNB	-20° F	+250° F
LSYNC	+30° F	+250° F
LSYPB	-40° F	+250° F
LSYPC	+10° F	+250° F
LSYRB	-20° F	+250° F
LSYRC	+30° F	+250° F
LSYVB	-40° F	+200° F
LSYVC	+10° F	+250° F
LSYWB	- 40° F	+200° F
LSYWC	+10° F	+250° F

SCALE

DO NOT SCALE PRINT

THE UNIVERSITY OF CHICAGO

PROJECT

~~CONFIDENTIAL~~ ~~AND~~ ~~IN~~ ~~THE~~ ~~FOUO~~

CO-FRANCHISE ARE

[illegible]

DATE: 10/15/1964

1. The first step is to identify the problem. In this case, the problem is that the system is not working properly.

0913674

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MICRO SWITCH
FREEPORT ILLINOIS U S A
A DIVISION OF HONEYWELL
FED MFG CODE 91929

SWITCH - ENCLOSED

CATALOG LISTING

LSY SERIES

CHART 1

TOLERANT ARE

1952年 1月 1日

1950-1951	100	100
1952-1953	100	100
1954-1955	100	100
1956-1957	100	100
1958-1959	100	100
1960-1961	100	100
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1964-1965	100	100
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1972-1973	100	100
1974-1975	100	100
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1978-1979	100	100
1980-1981	100	100
1982-1983	100	100
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1986-1987	100	100
1988-1989	100	100
1990-1991	100	100
1992-1993	100	100
1994-1995	100	100
1996-1997	100	100
1998-1999	100	100
2000-2001	100	100
2002-2003	100	100
2004-2005	100	100
2006-2007	100	100
2008-2009	100	100
2010-2011	100	100
2012-2013	100	100
2014-2015	100	100
2016-2017	100	100
2018-2019	100	100
2020-2021	100	100
2022-2023	100	100
2024-2025	100	100
2026-2027	100	100
2028-2029	100	100
2030-2031	100	100
2032-2033	100	100
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2090-2091	100	100
2092-2093	100	100
2094-2095	100	100
2096-2097	100	100
2098-2099	100	100
2100-2101	100	100
2102-2103	100	100
2104-2105	100	100
2106-2107	100	100
2108-2109	100	100
2110-2111	100	100
2112-2113	100	100
2114-2115	100	100
2116-2117	100	100
2118-2119	100	100
2120-2121	100	100
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2124-2125	100	100
2126-2127	100	100
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2130-2131	100	100
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2144-2145	100	100
2146-2147	100	100
2148-2149	100	100
2150-2151	100	100
2152-2153	100	100
2154-		

0001

1. The first step is to identify the problem. In this case, the problem is that the system is not working properly. The user has reported that the system is not working properly, and the user has provided some information about the problem. The first step is to identify the problem.

01-16-79

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