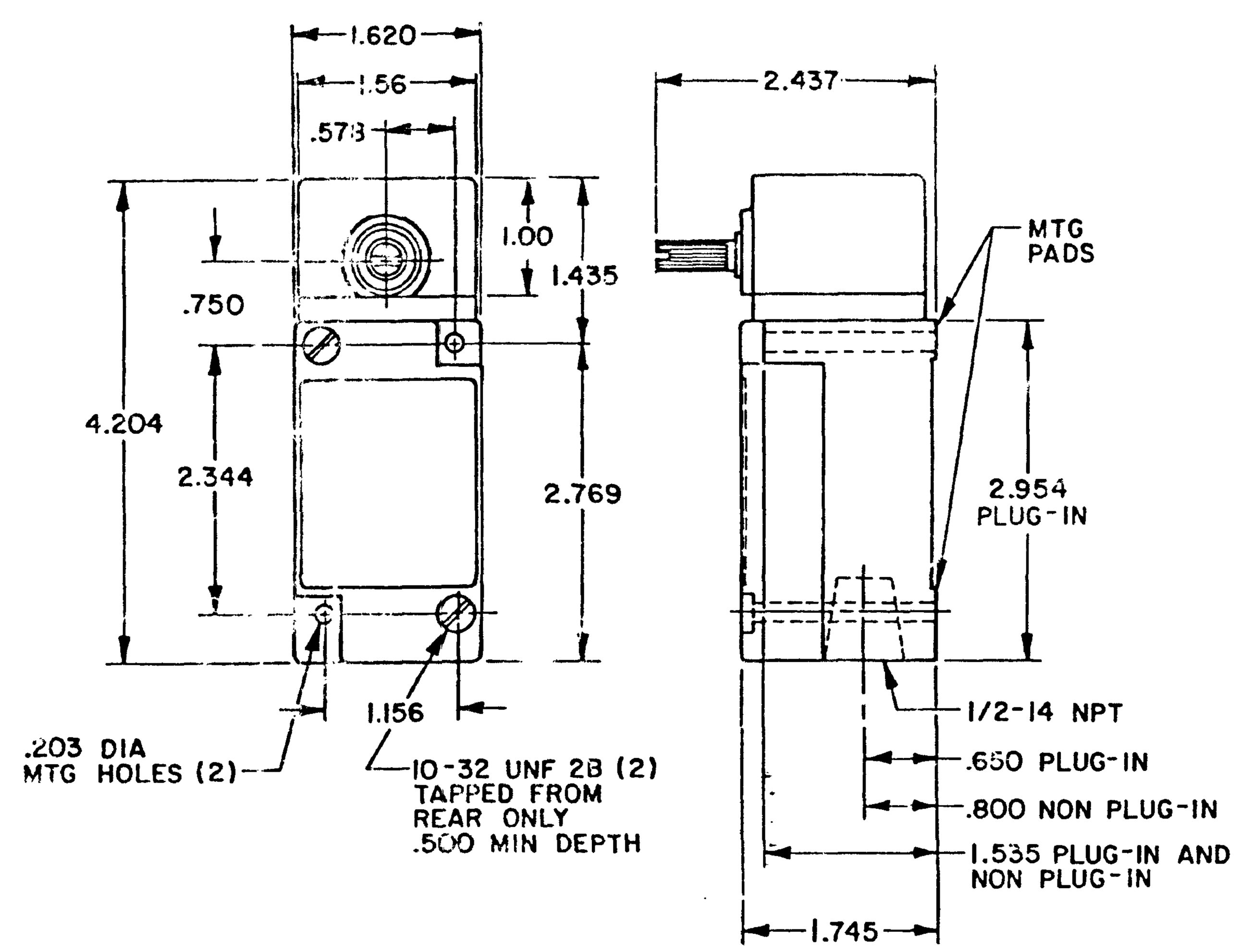
OPERATING CHARACTERISTICS	LSA MOMENTARY		LSR MOMENTARY LOW TORQUE		LSN MAINTAINED	LSP MOMENTARY LOW PRETRAVEL AND DIFF. TRAVEL		LSH MOMENTARY LOW PRETRAVEL AND LOW TORQUE	
PRETRAVEL(MAX)	15°		15°		65°	9°		9°	
OVERTRAVEL(MIN)	60°		60°		20°	66°		66°	
DIFFERENTIAL TRAVEL(MAX)	SINGLE POLE 5°	DOUBLE POLE 7°	SINGLE POLE 5°	DOUBLE POLE 7°	40°	SINGLE POLE 3°	DOUBLE POLE 4°	SINGLE POLE 3°	DOUBLE POLE 4°
TOTAL TRAVEL (REF)	75°		75°		90°	75°		75°	
OPERATING TORQUE(MAX)	4 IN. LBS		1.7 IN. LBS		4 IN. LBS	4 IN. LBS		1.7 IN. LBS	
FULL TRAVEL TORQUE(MAX)	4 IN. LBS		1.7 IN. LBS			4 IN. LBS		1.7 IN. LBS	

OPERATING CHARACTERISTICS	LSU LOW PRETRAVEL		LSL SEQUENCE DOUBLE POLE ONLY	LSM CENTER NEUTRAL DOUBLE POLE ONLY	LST MOMENTARY	LSS GRAVITY RETURN
PRETRAVEL(MAX)	5°		1ST STEP 15° 2ND STEP 10° ADD'L	18°	15°	NOT APPLICABLE
OVERTRAVEL(MIN)	70°		48°	57°	60°	NOT APPLICABLE
DIFFERENTIAL TRAVEL(MAX)	SINGLE POLE 5°	DOUBLE POLE 4°	5°	10°	5°	12°
TOTAL TRAVEL (REF)	75°		75°	75°	75°	360°
OPERATING TORQUE(MAX)	4 IN. LBS		4 IN. LBS	4 IN. LBS	12 IN-OZ	5 IN-OZ
FULL TRAVEL TORQUE(MAX)	4 IN. LBS		4 IN. LBS	4 IN. LBS	12 IN-OZ	5 IN-OZ

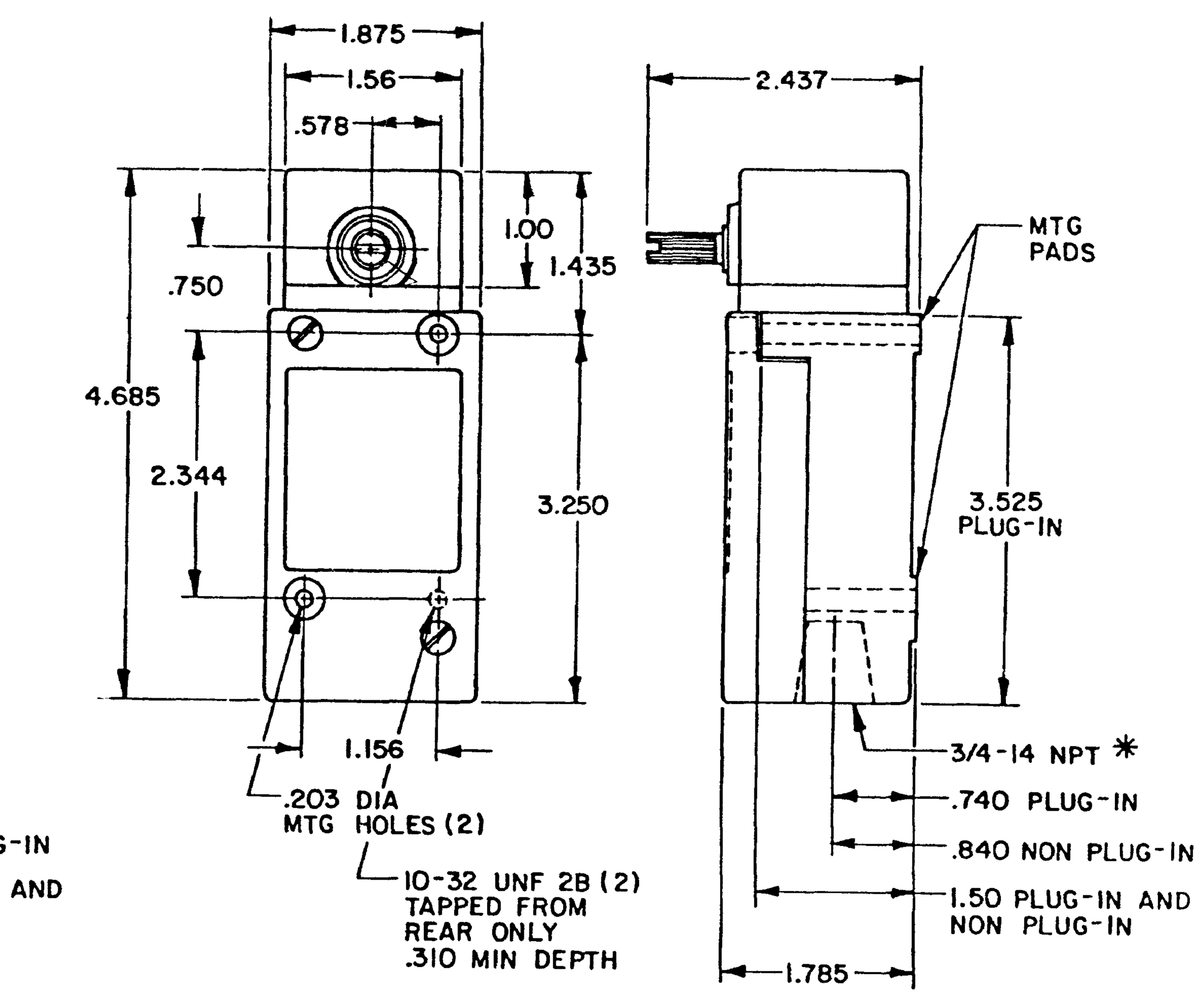
SIDE ROTARY

SINGLE POLE



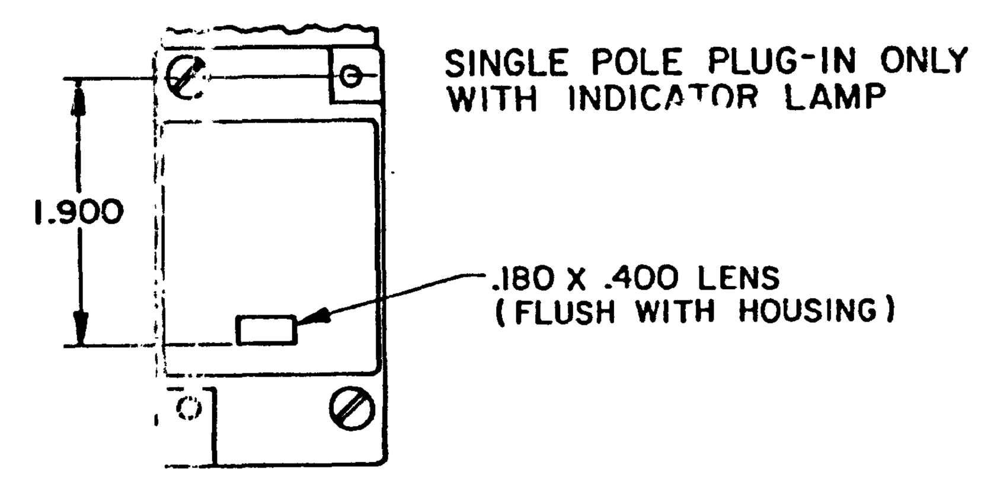
TYPE: LSA1, LSH1, LSN1, LSP1, LSR1
LSA3, LSH3, LSN3, LSP3, LSR3
LSS1, LST1

DOUBLE POLE



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

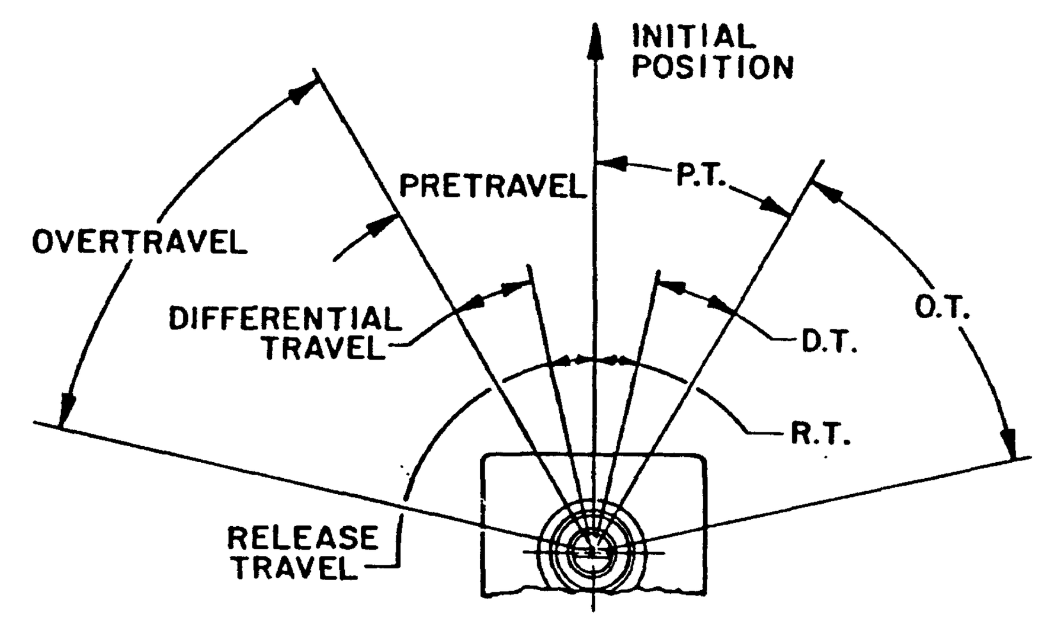
*(LSA6, LSH6, LSM6, LSN6, LSP6, LSR6
LSA7, LSH7, LSM7, LSN7, LSP7, LSR7 HAVE
1/2-14 NPT CONDUIT HOLE)



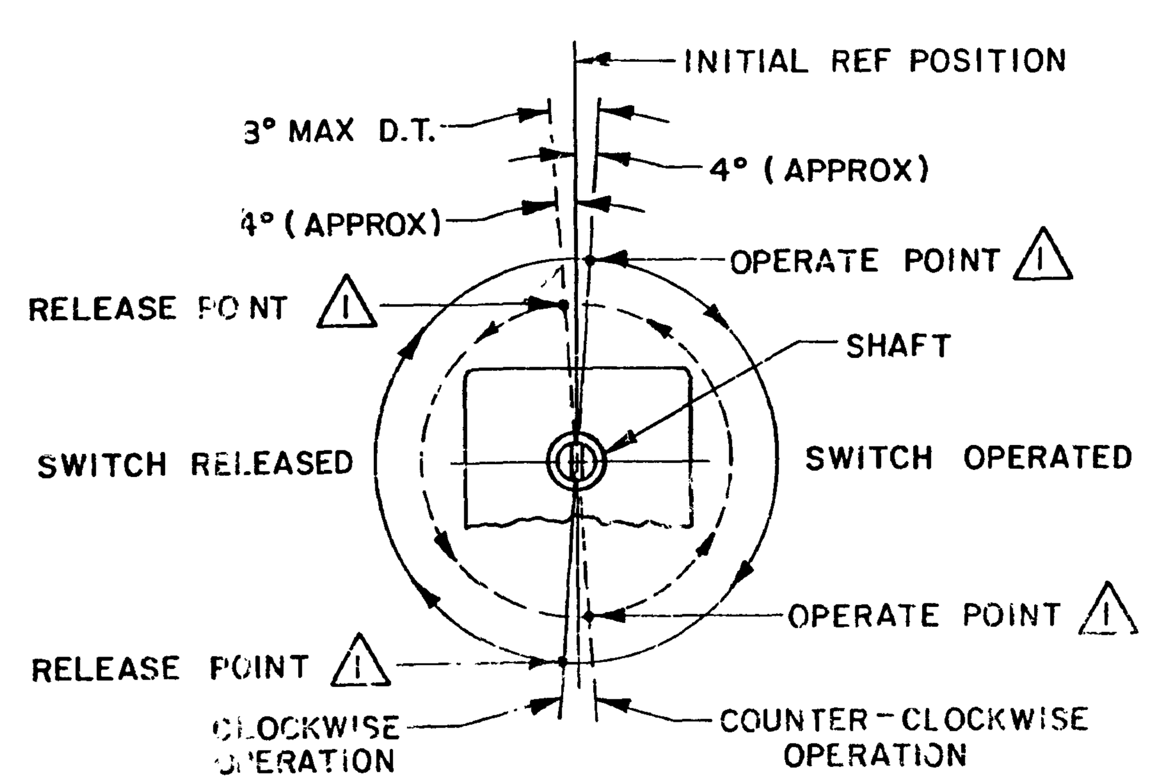
120 LAMP VOLTAGE -
TYPE LSA5, LSH5, LSN5, LSP5, LSR5

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

OPERATING DATA-SIDE ROTARY

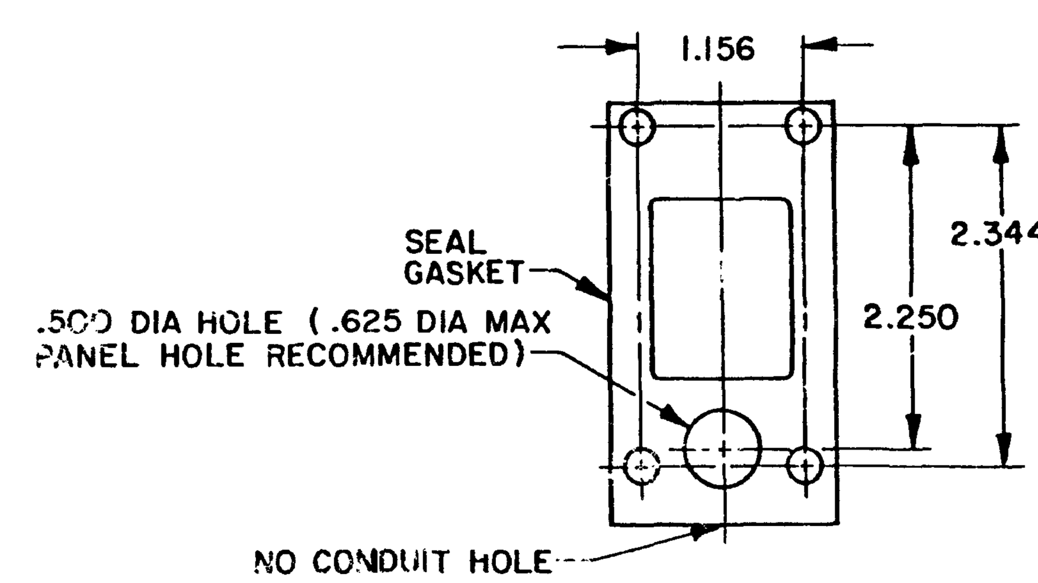


OPERATING DATA
SIDE ROTARY-GRAVITY RETURN



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

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



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

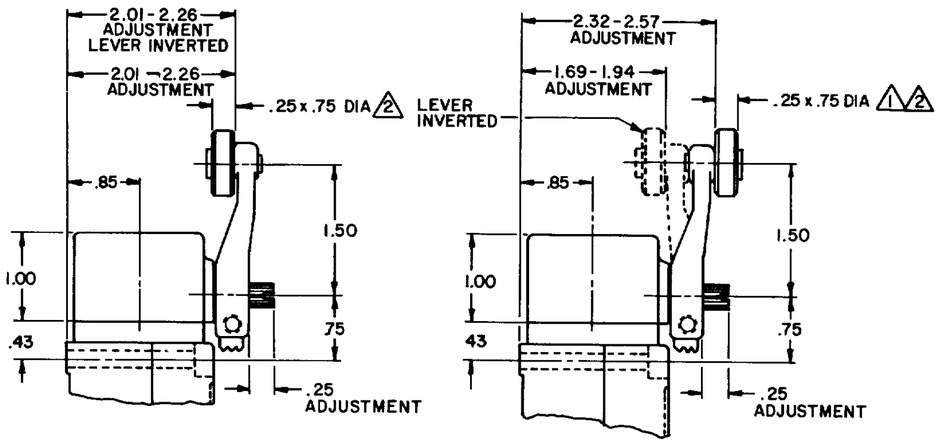
MICRO SWITCH a Honeywell Division
FED. MFG. CODE 91929

SWITCH - ENCLOSED

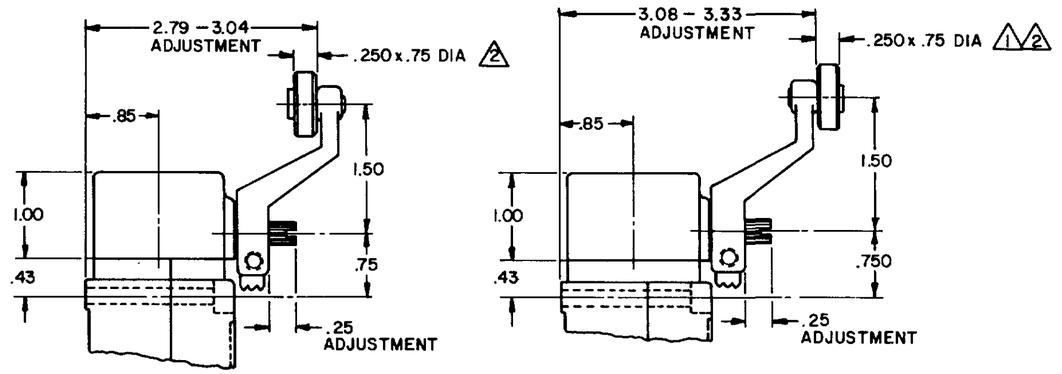
CATALOG LISTING LSA-LSW SERIES CHART 1

CATALOG LISTING M LSA-LSW SERIES CHART 1 PAGE 1 OF 10
ISSUE 12 PSR 10JUL07 RELEASE NO CO-78498 REPLACES LSA-LSW SERIES
RASTER DRAWN MAM 15 JUN 94 CHECK JAF 11 JUL 94

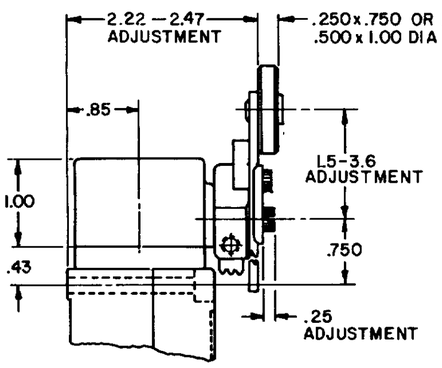
SIDE ROTARY CAM TRACKING



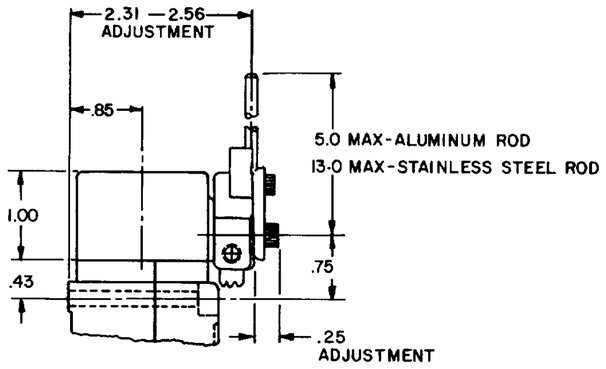
LSZ51 TYPE LEVERS



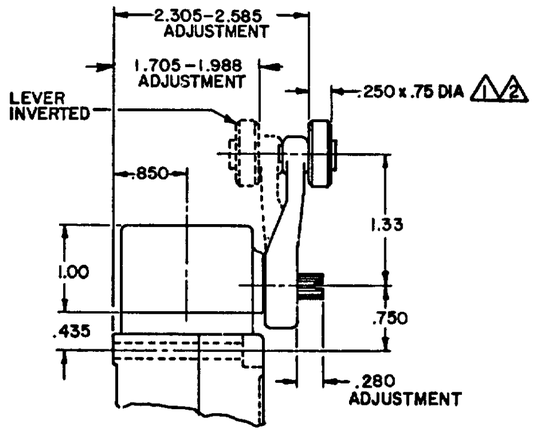
LSZ55 TYPE LEVERS



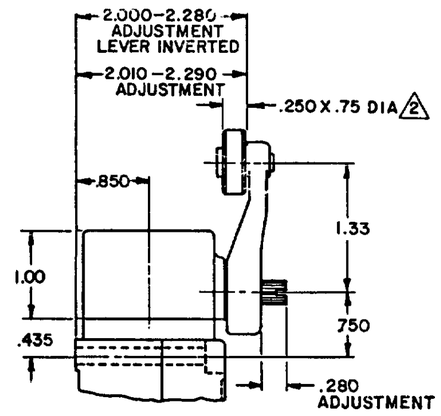
LSZ52 TYPE LEVER



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: M LSA-LSW SERIES CHART 1, PAGE 2 OF 10

ISSUE	RELEASE NO	REPLACES
12	10JUL07	CO-78498

REVISIONS						
L	0031956	BS 10JUL07	11AUG04	PSR	10JUL07	CO-78498
B	201004	C S L 10 AUG 00	AK			
C	201748	C S L 17 NOV 00	CHECK			
D	202198	C S L 23 JAN 01	CHECK			
E	204871	C J W FEB 02	11 JUL 94			
F	206581	GLH 14OCT02	JAF			
G	206763	C S L 31 OCT 02	CHECK			
H	207179	GLH 14 JAN 03				
J	207474	TSM 18FEB03				
K	0006871	KR 11AUG04				

RASTER DRAWN MAM 15 JUN 94

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)	±.030
TWO PLACES	(00)	±.015
THREE PLACES	(.000)	±.005
ANGLES		±

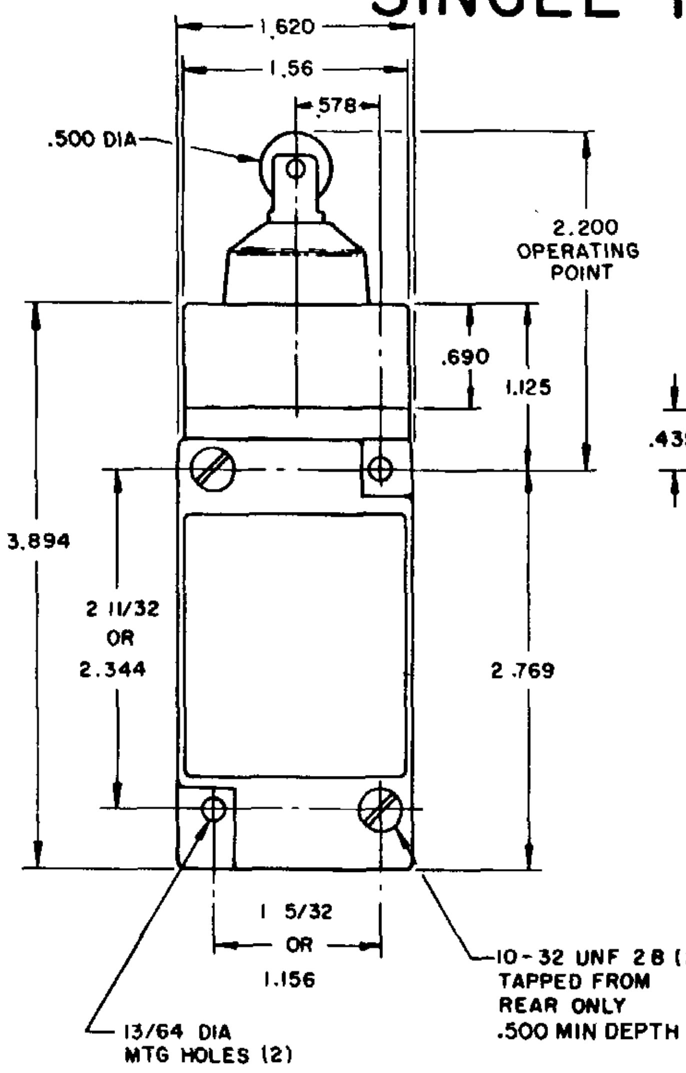
WEIGHT

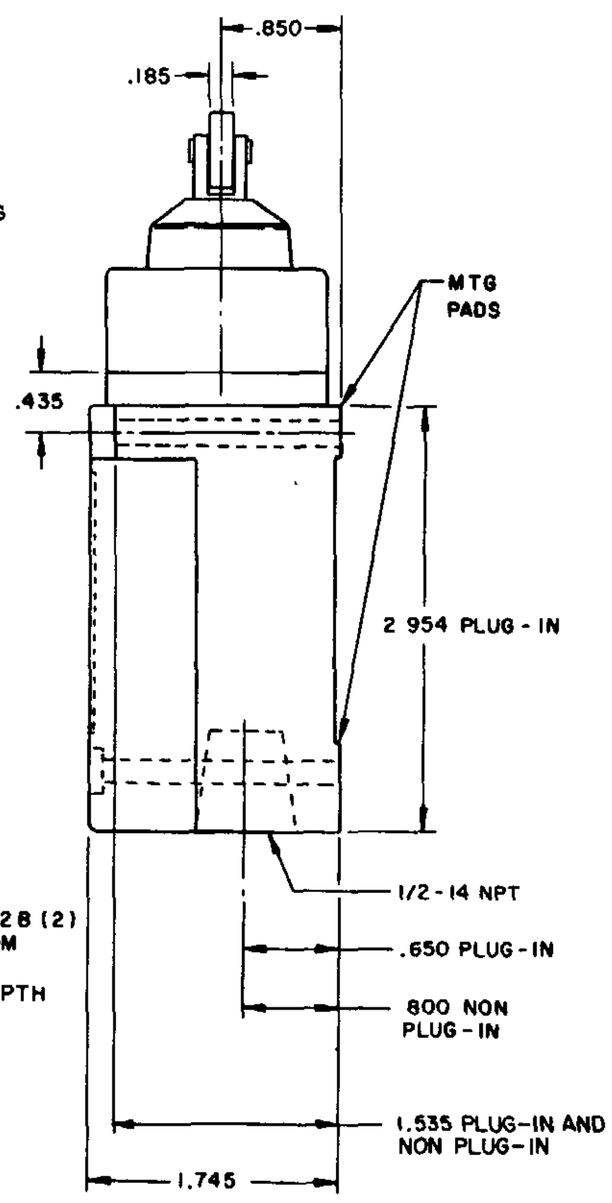
RASTER

| | | |

PLUNGER TYPE TOP

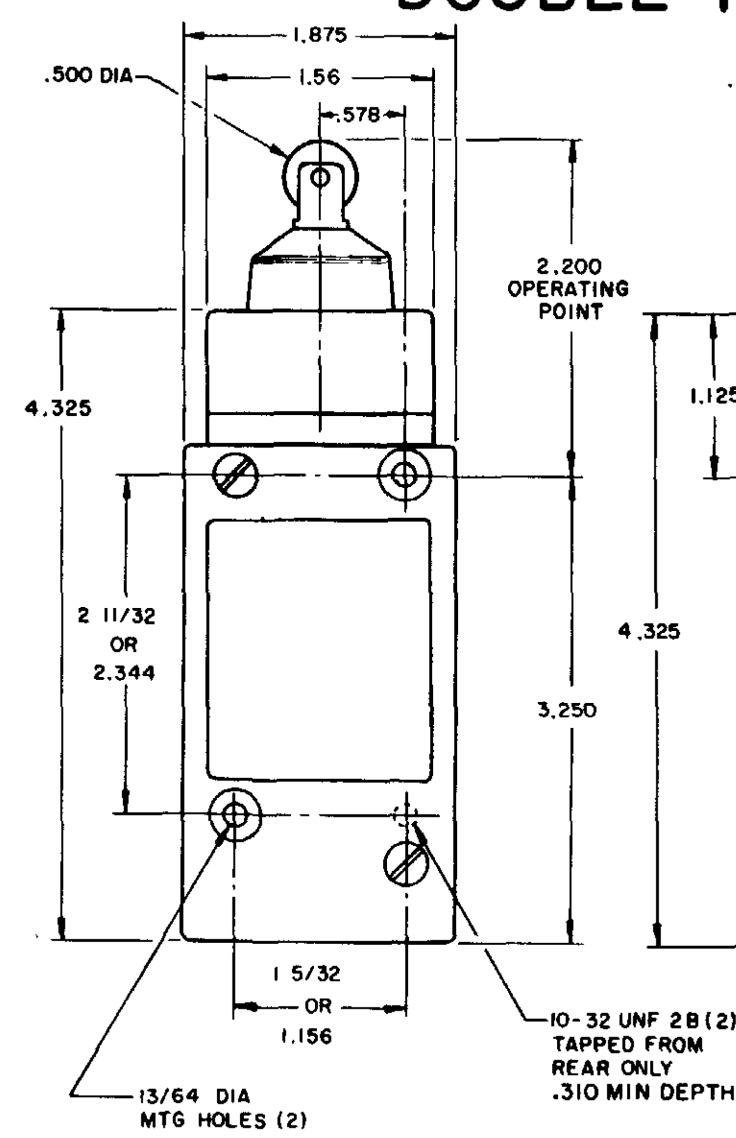
SINGLE POLE

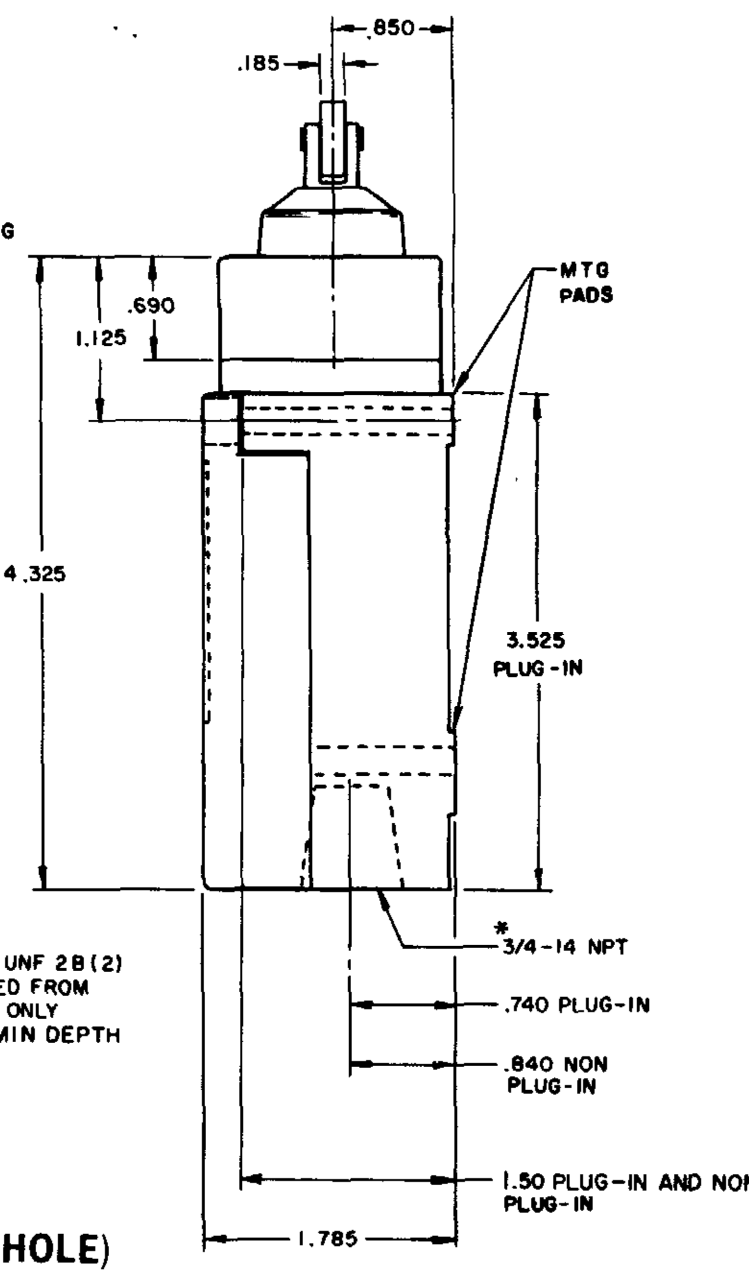




TYPE LSD1 and LSD3

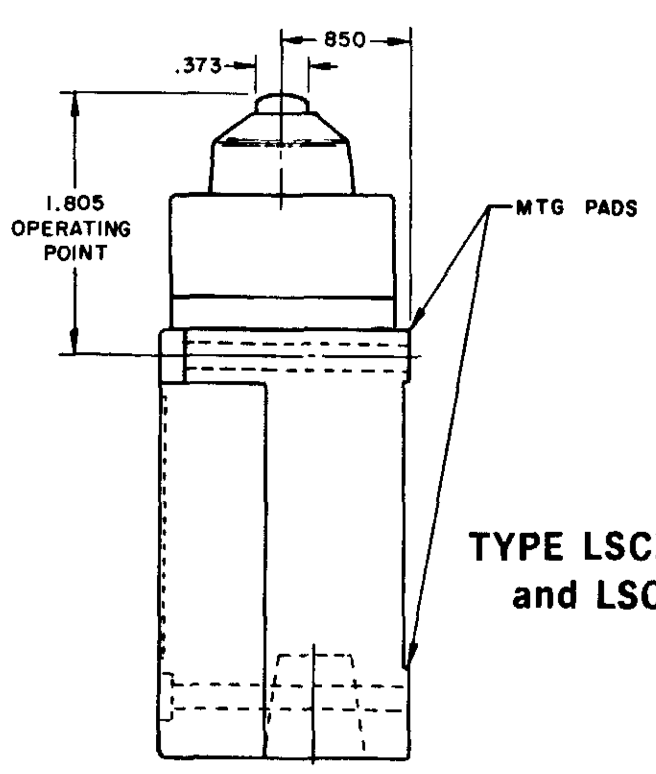
DOUBLE POLE





TYPE LSD2 and LSD4

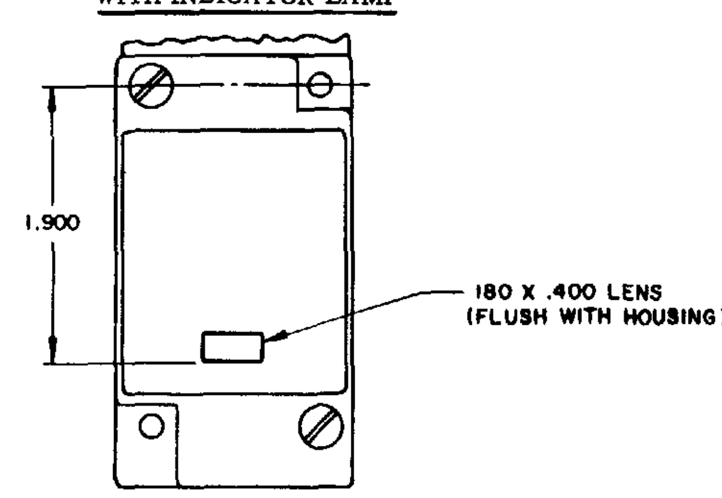
***(LSD6 and LSD7 have ½ – 14 NPT CONDUIT HOLE)**



TYPE LSC1 and LSC3

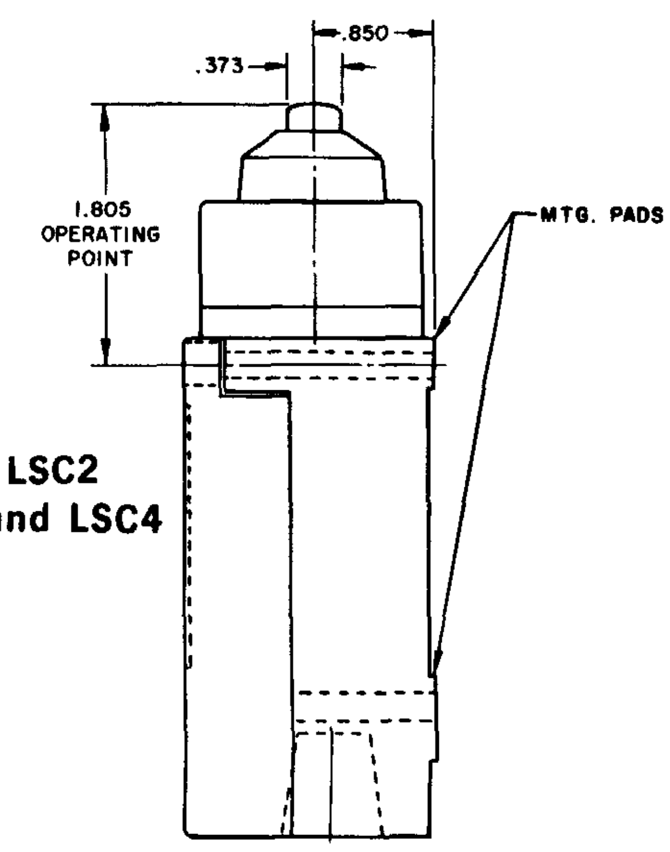
SINGLE POLE PLUG-IN ONLY

WITH INDICATOR LAMP

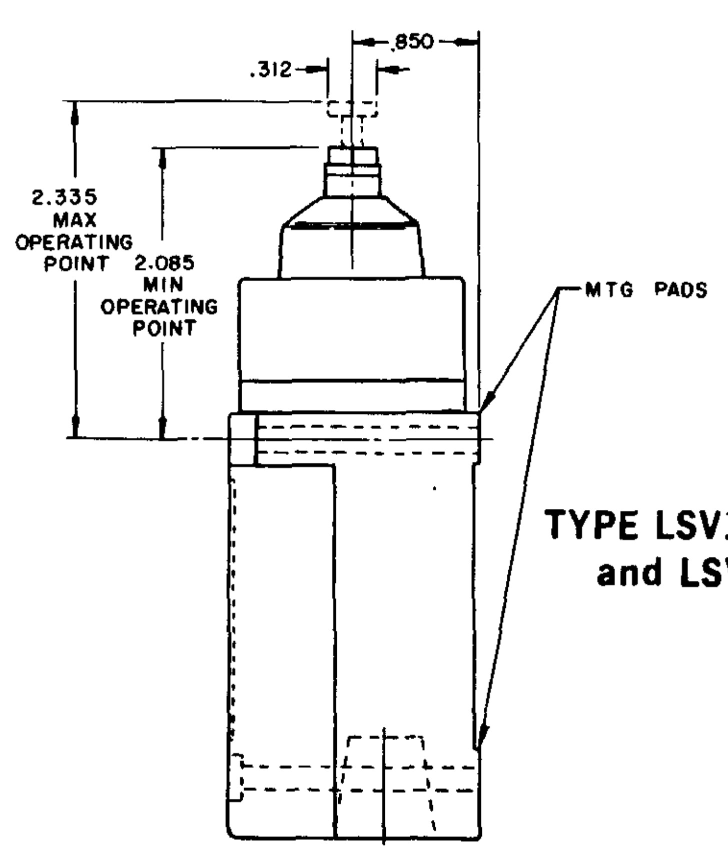


120 LAMP VOLTAGE - TYPE LSC5, LSD5 or LSV5

240 LAMP VOLTAGE - TYPE LSC8, LSD8 or LSV8



TYPE LSC2 and LSC4

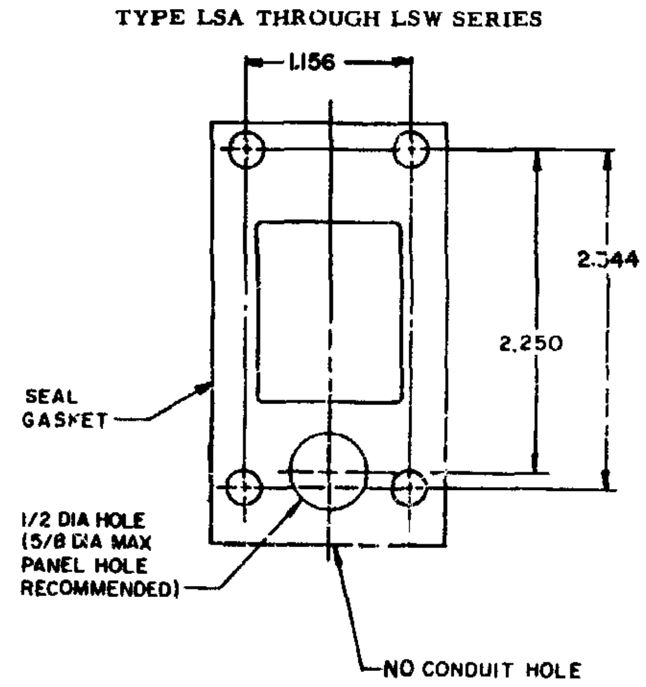


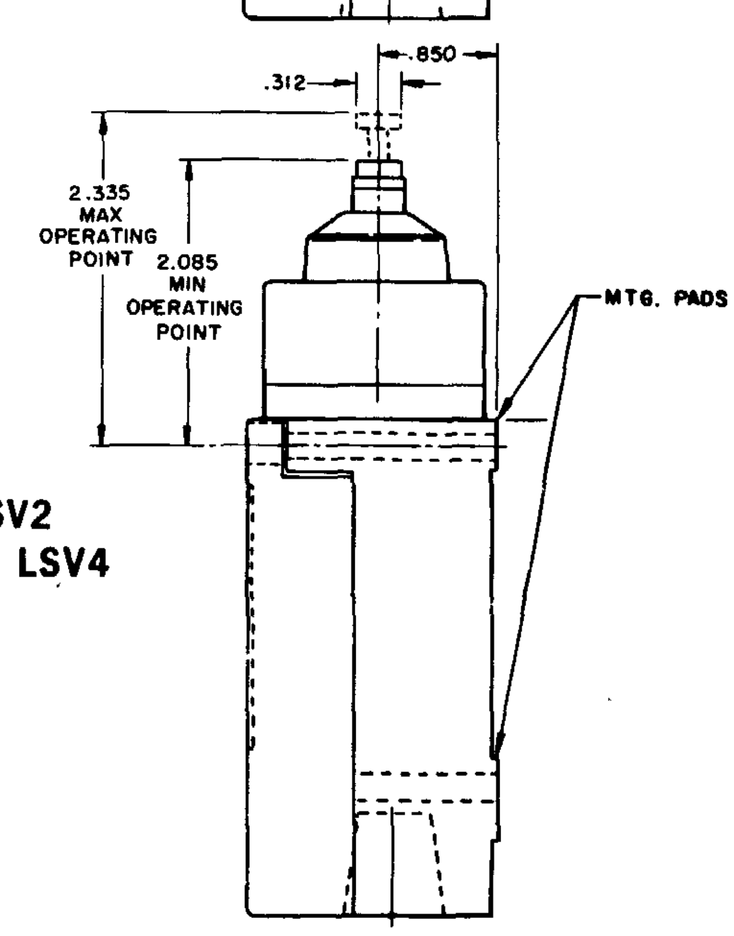
TYPE LSV1 and LSV3

MANIFOLD MOUNT (PLUG-IN ONLY)

SINGLE POLE AND DOUBLE POLE

TYPE LSA THROUGH LSW SERIES

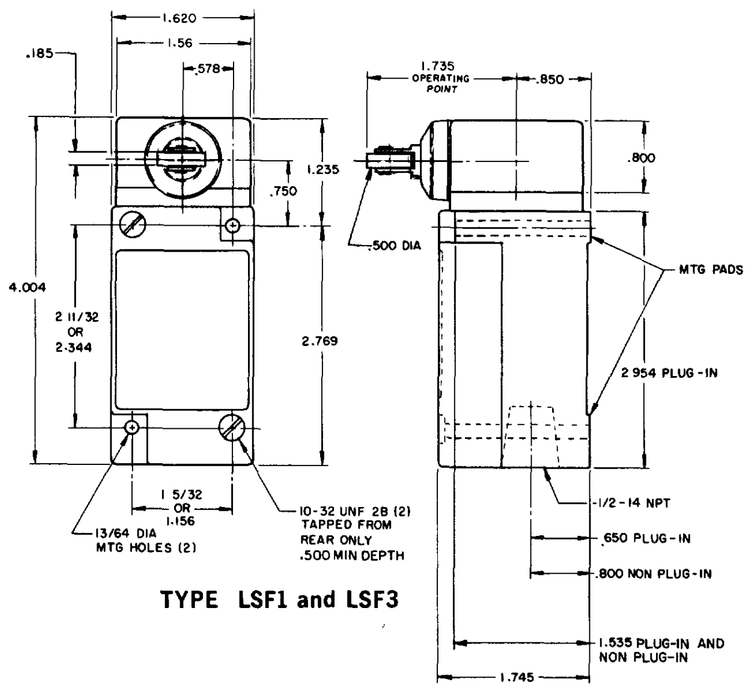




TYPE LSV2 and LSV4

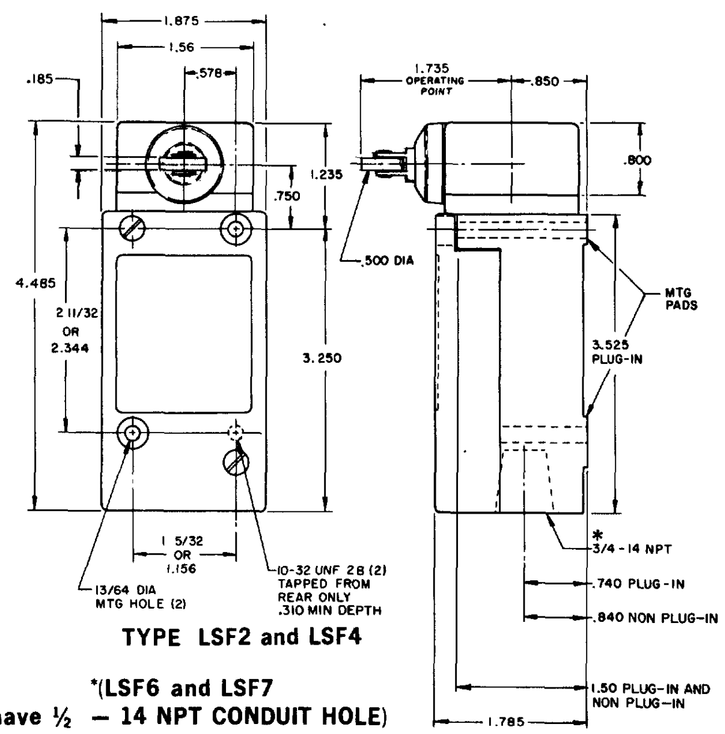
SIDE PLUNGER TYPE

SINGLE POLE



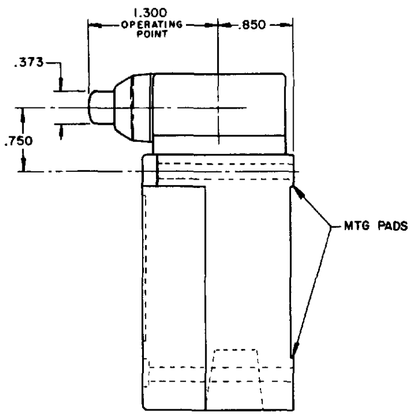
TYPE LSF1 and LSF3

DOUBLE POLE



TYPE LSF2 and LSF4

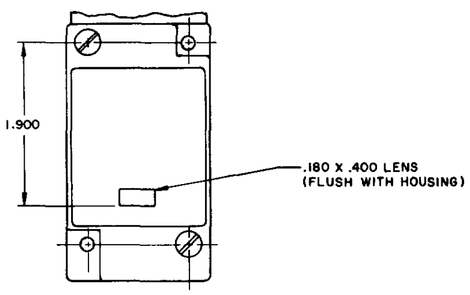
***(LSF6 and LSF7 have ½ — 14 NPT CONDUIT HOLE)**



TYPE LSE1 and LSE3

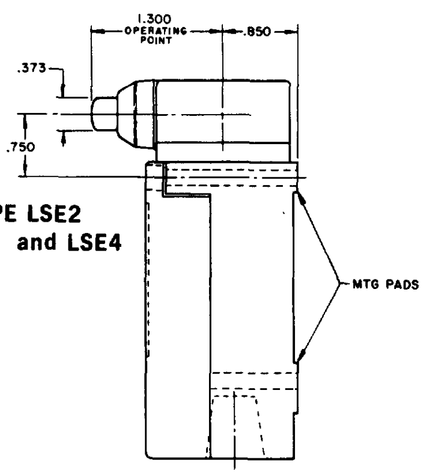
SINGLE POLE PLUG-IN ONLY

WITH INDICATOR LAMP

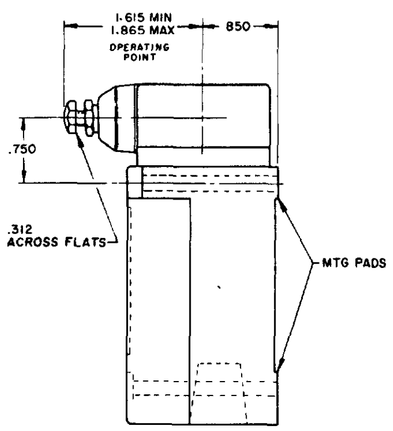


120 LAMP VOLTAGE - TYPE LSF5, LSE5 and LSW5

240 LAMP VOLTAGE - TYPE LSF8, LSE8 and LSW8



TYPE LSE2 and LSE4

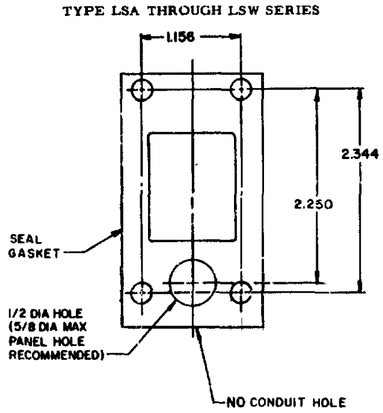


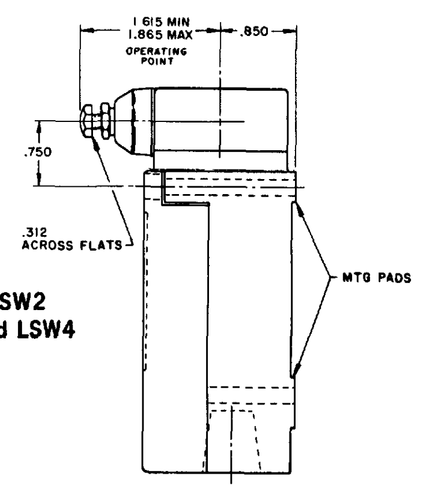
TYPE LSW1 and LSW3

MANIFOLD MOUNT (PLUG-IN ONLY)

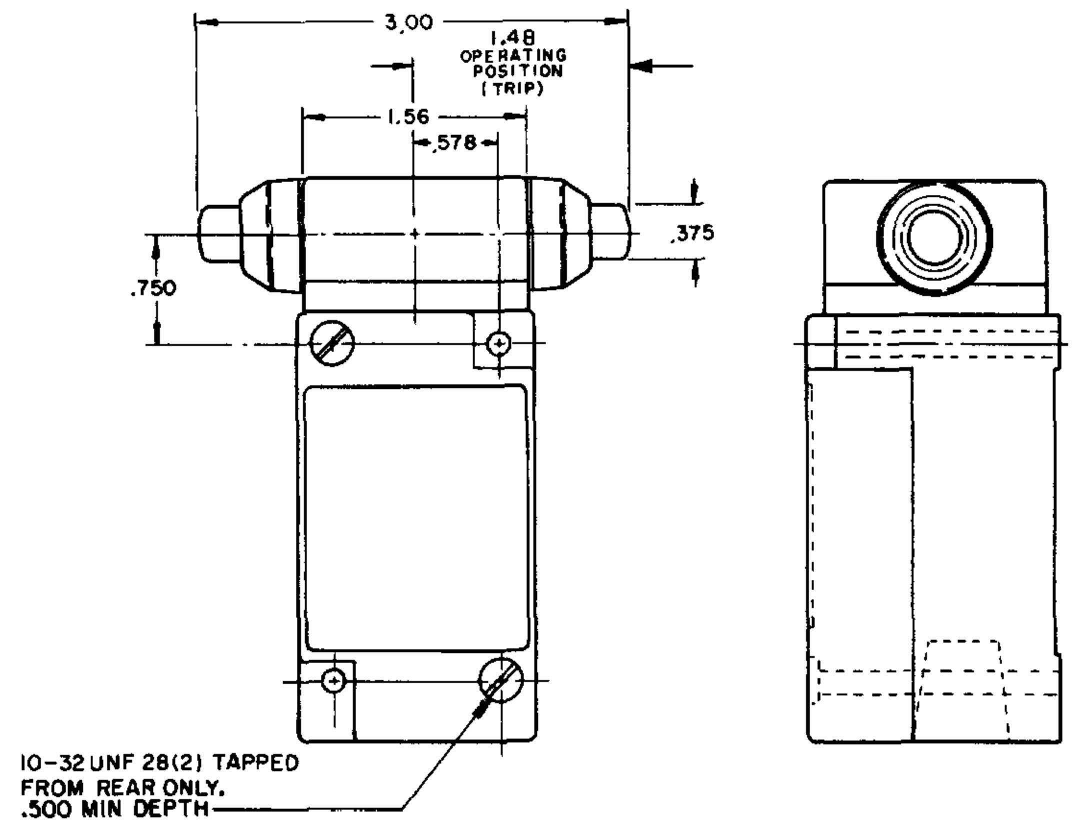
SINGLE POLE AND DOUBLE POLE

TYPE LSA THROUGH LSW SERIES

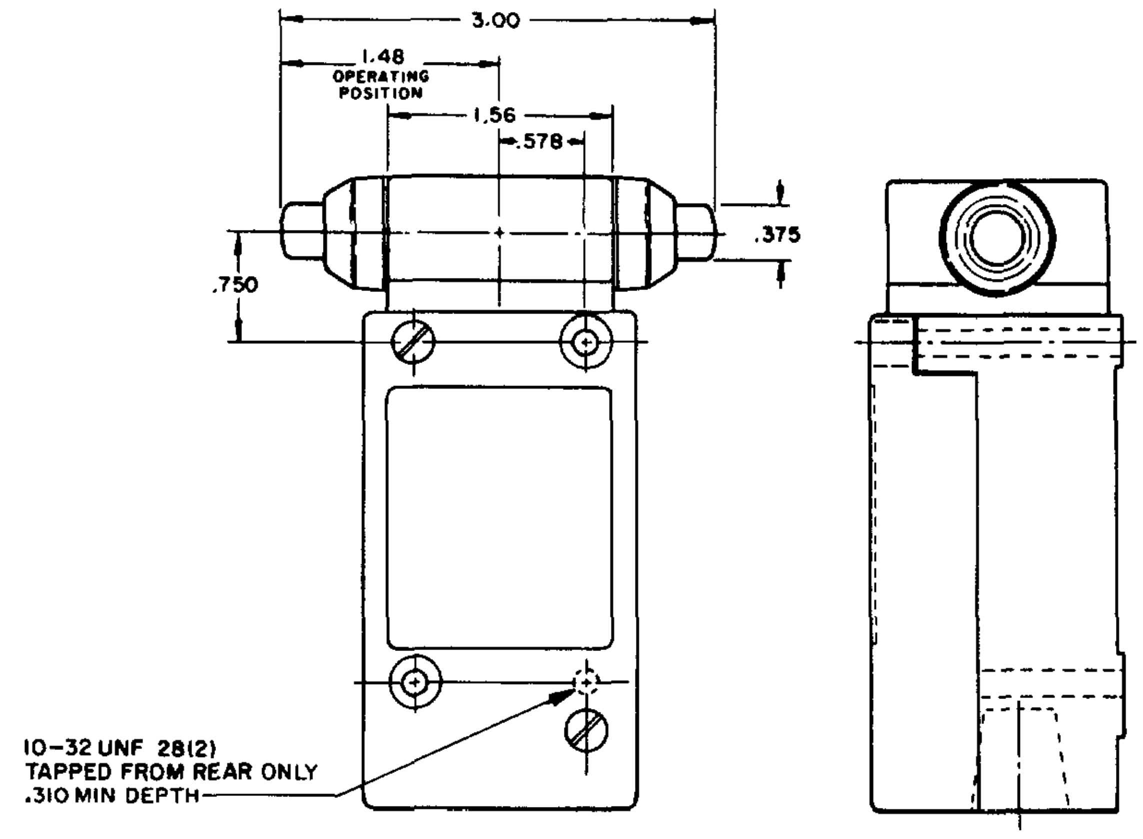




TYPE LSW2 and LSW4



TYPE LSG1 and LSG3



TYPE LSG2 and LSG4

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

OPERATING POINT GIVEN IN RELATION TO TOP MOUNTING HOLE

TOP PLUNGER TYPES

CHARACTERISTICS	LSC PLUNGER		LSD ROLLER PLUNGER		LSV ADJ PLUNGER		SEQUENCE BASIC		
							LSC	LSD	LSV
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		

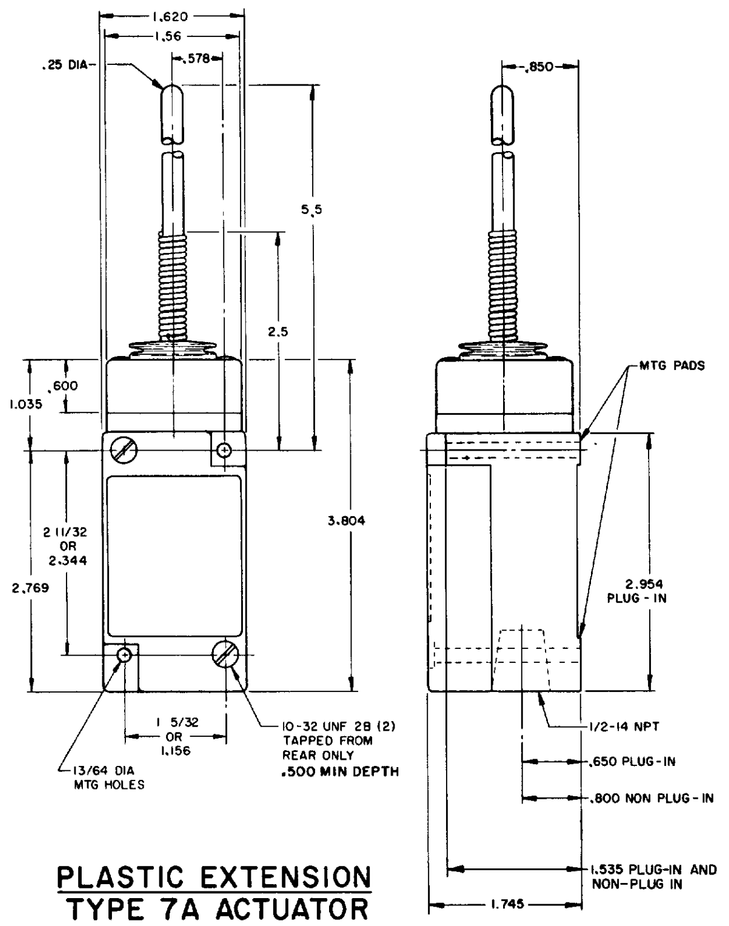
OPERATING POINT GIVEN IN RELATION TO CENTER OF HEAD

SIDE PLUNGER TYPES

CHARACTERISTICS	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 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	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		

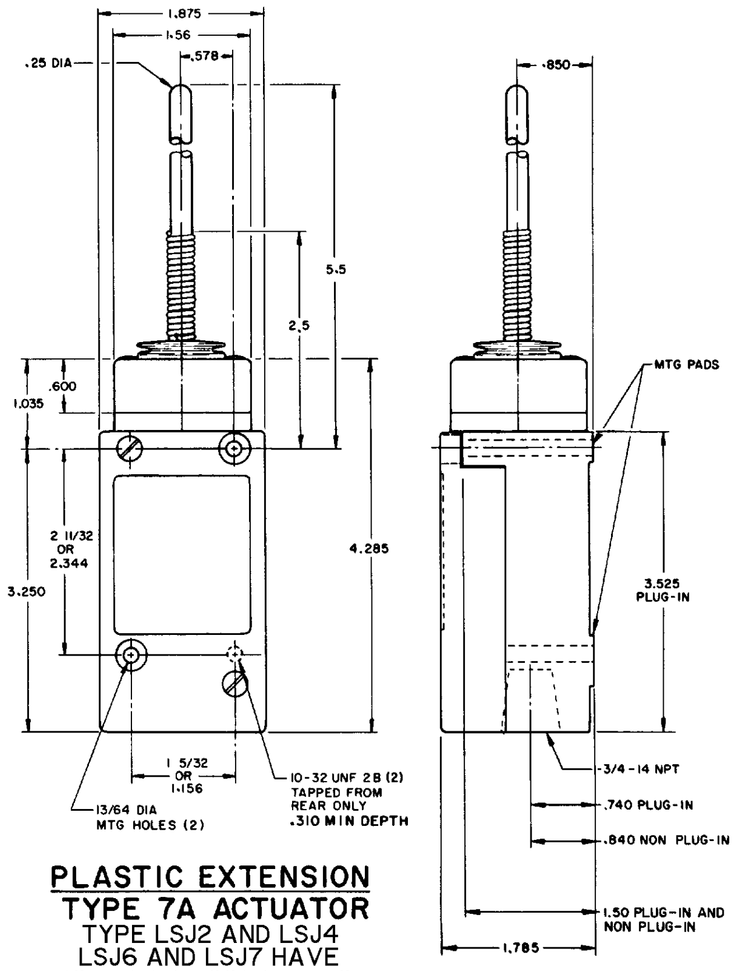
WOBBLE STICK

SINGLE POLE



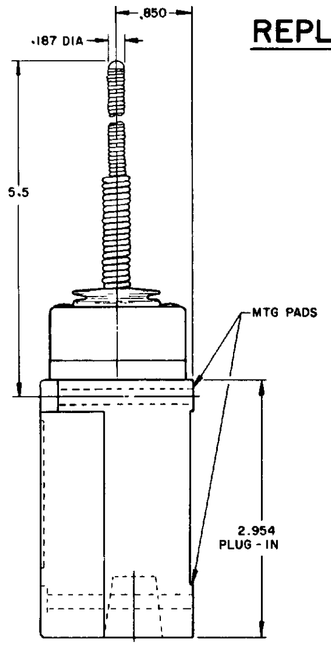
PLASTIC EXTENSION
TYPE 7A ACTUATOR
TYPE LSJ1 AND LSJ3

DOUBLE POLE

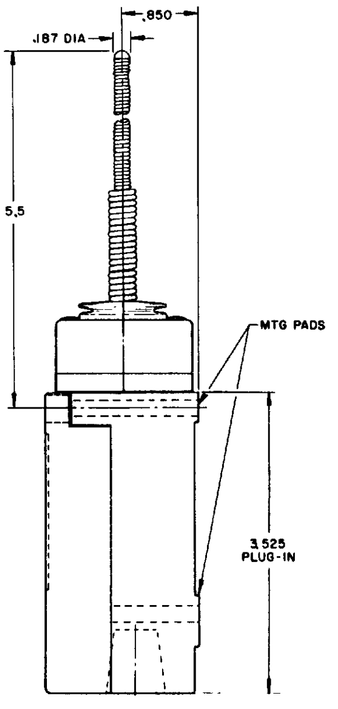


PLASTIC EXTENSION
TYPE 7A ACTUATOR
TYPE LSJ2 AND LSJ4
LSJ6 AND LSJ7 HAVE
1/2 - 14 NPT CONDUIT HOLE

REPLACEMENT ACTUATOR
LSZ-4009



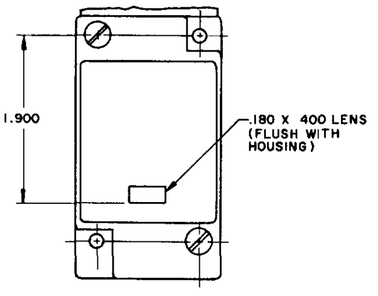
CABLE EXTENSION
TYPE 7N ACTUATOR



CABLE EXTENSION
TYPE 7N ACTUATOR

SINGLE POLE PLUG-IN ONLY

WITH INDICATOR LAMP

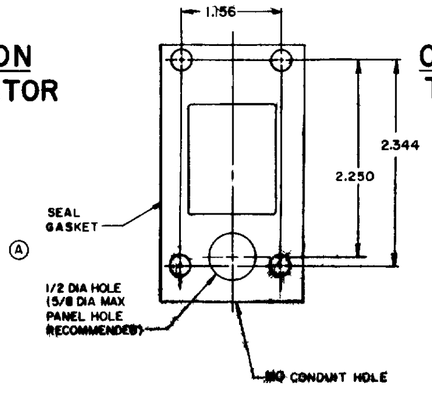


120 LAMP VOLTAGE TYPE LSJ5
240 LAMP VOLTAGE TYPE LSJ8
24 LED VOLTAGE TYPE LSJ9

MANIFOLD MOUNT (PLUG-IN ONLY)

SINGLE POLE AND DOUBLE POLE

TYPE LSA THROUGH LSW SERIES



REPLACEMENT ACTUATOR
LSZ-4011

MICRO SWITCH
a Honeywell Division
FED MFG CODE 91929

SWITCH – ENCLOSED

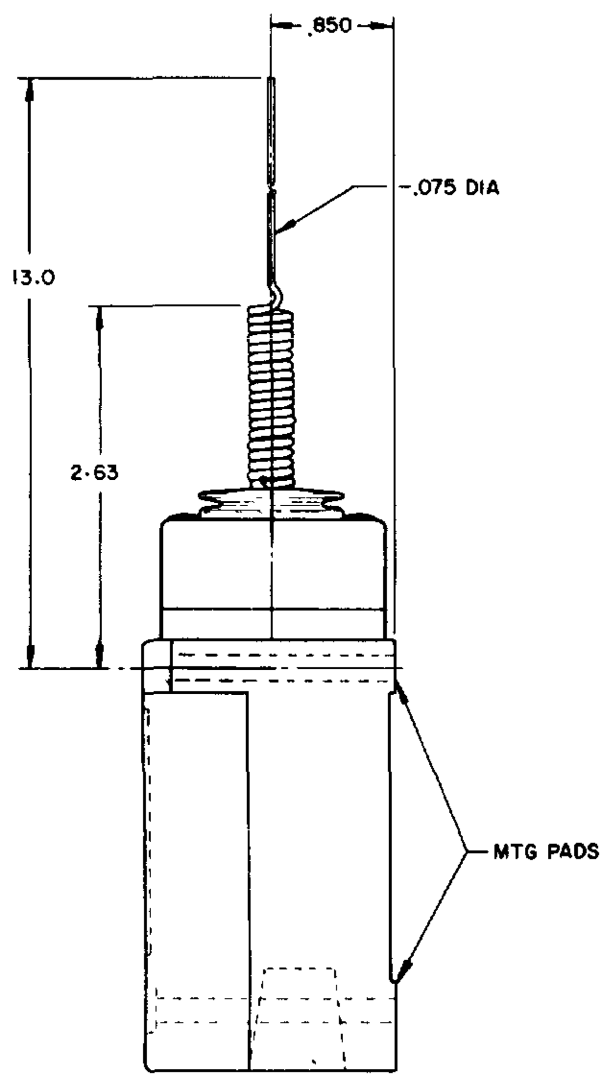
LSA-LSW SERIES
CHART 1

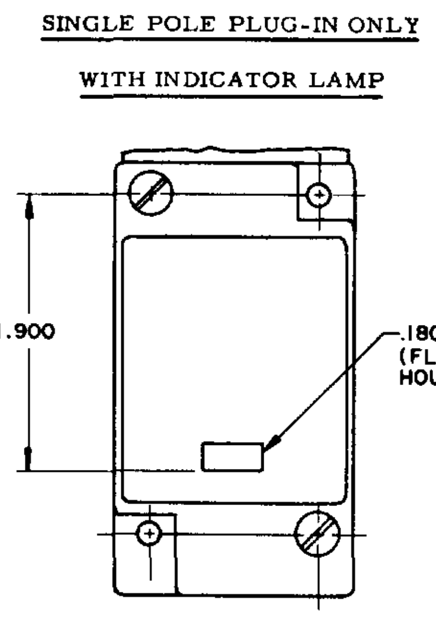
CATALOG LISTING

PAGE 7 OF 10

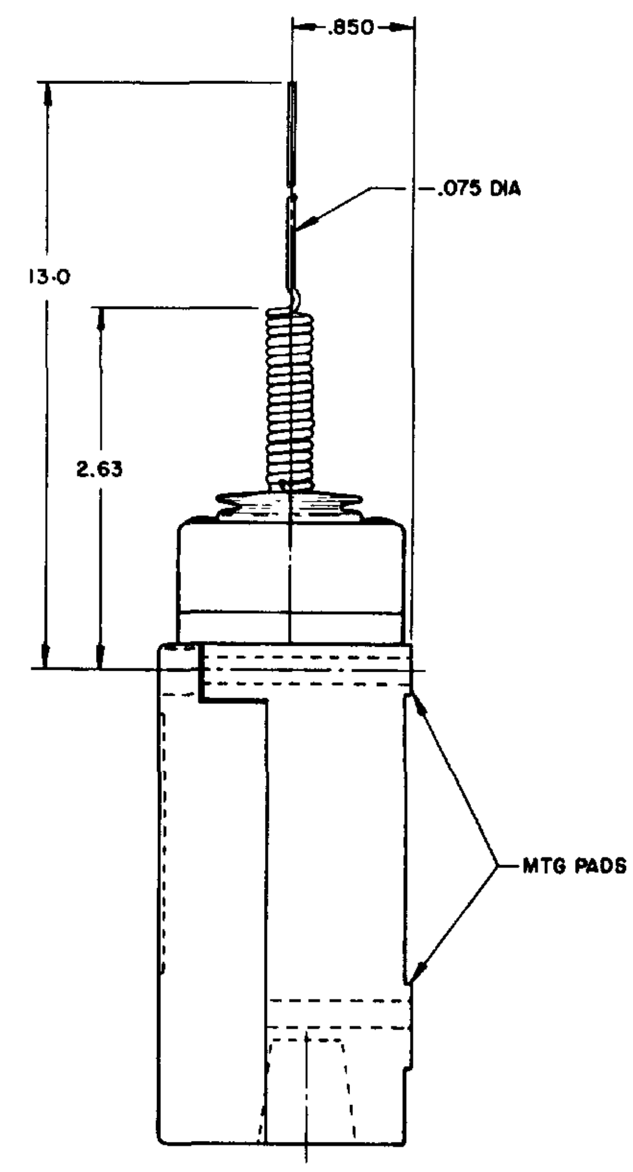
SCALE NONE
DO NOT SCALE PRINT

M LSA-LSW SERIES CHART 1
PAGE 7 OF 10





120 LAMP VOLTAGE TYPE LSJ5
240 LAMP VOLTAGE TYPE LSJ8



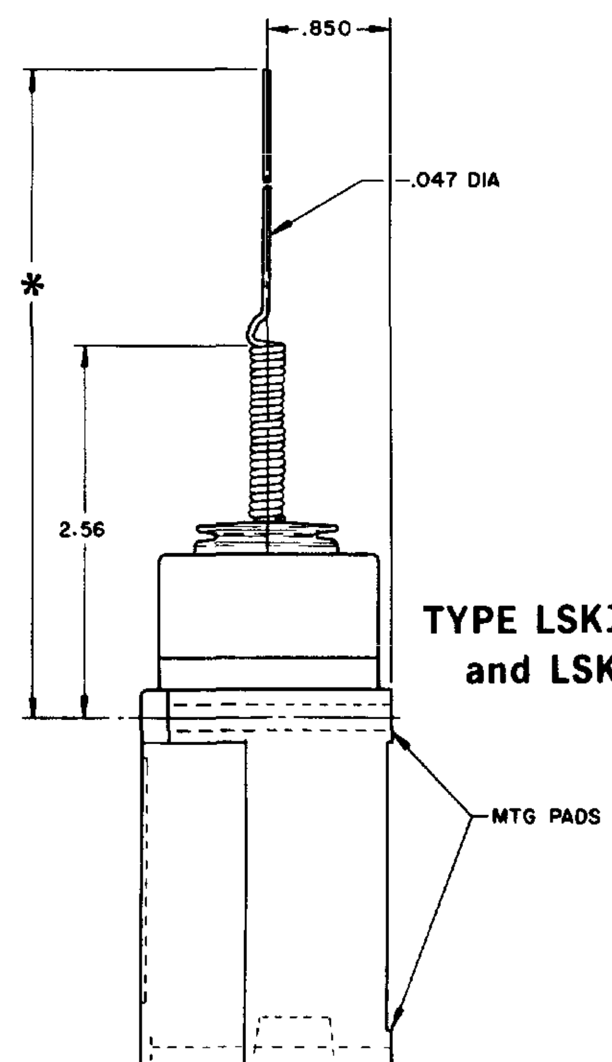
WIRE EXTENSION TYPE 7M ACTUATOR
TYPE LSJ1 and LSJ3

REPLACEMENT ACTUATOR–LSZ 4010

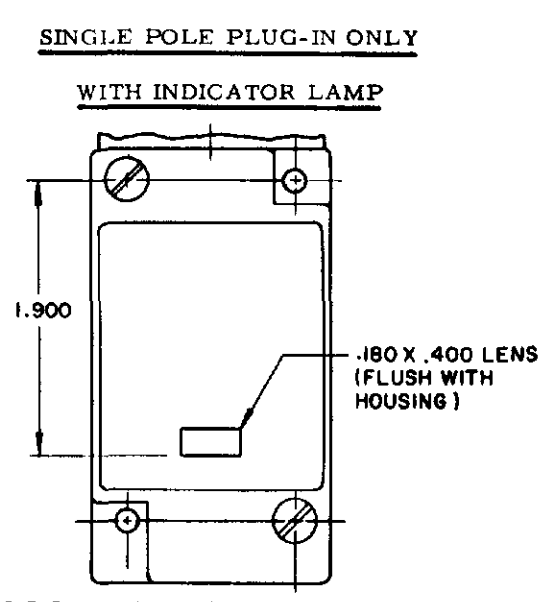
WIRE EXTENSION TYPE 7M ACTUATOR
TYPE LSJ2 and LSJ4
LSJ6 and LSJ7 have ½ - 14 NPT CONDUIT HOLE

CAT WHISKER

SINGLE POLE

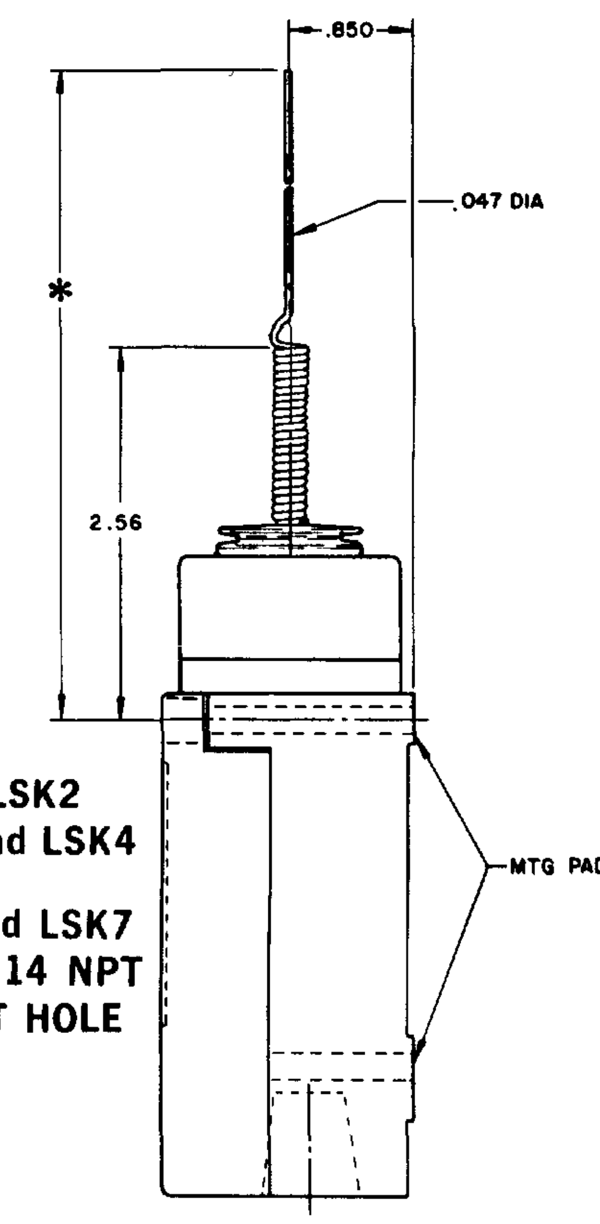


TYPE LSK1 and LSK3



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

DOUBLE POLE



TYPE LSK2 and LSK4

LSK6 and LSK7 have ½ - 14 NPT CONDUIT HOLE

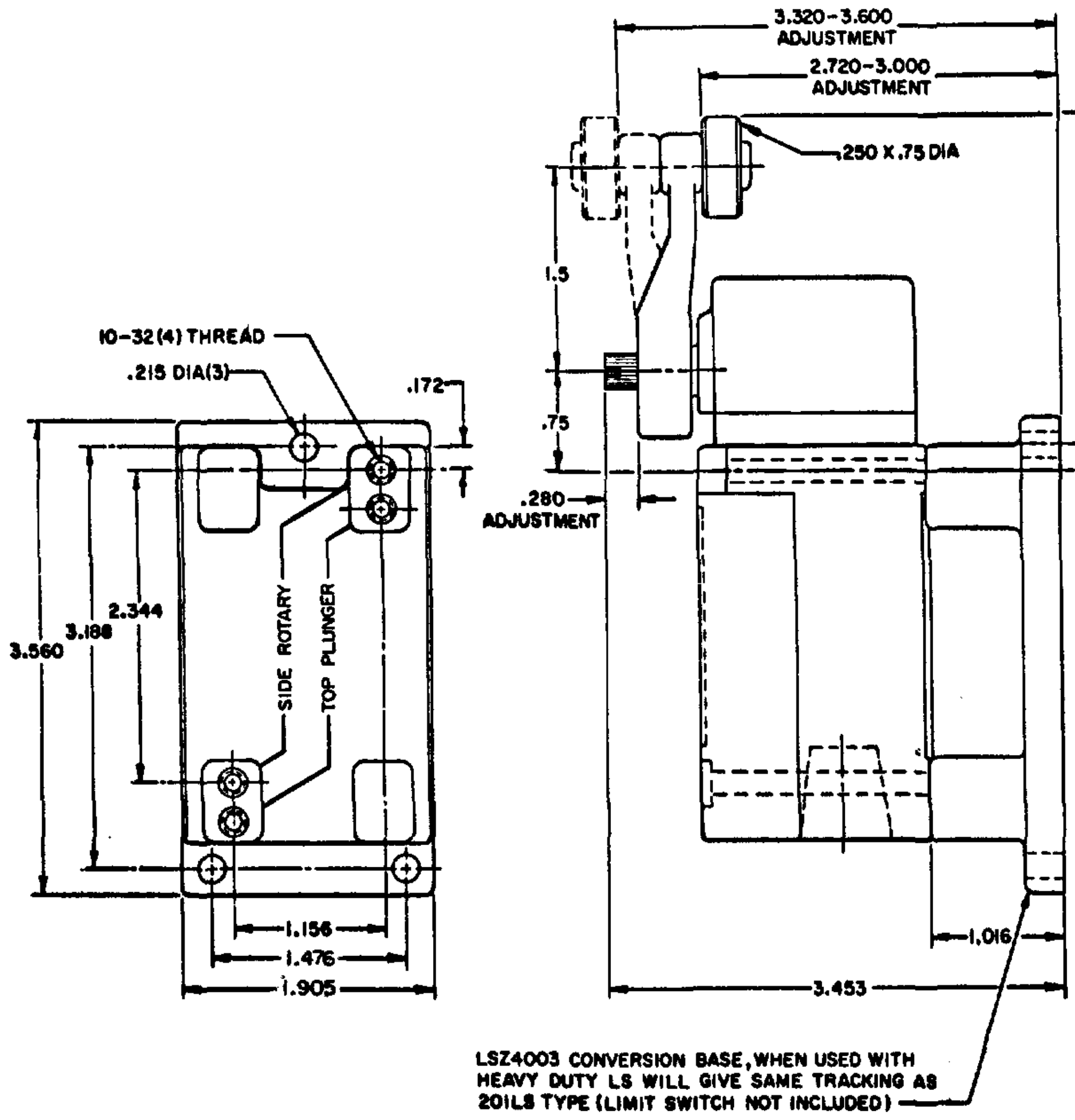
*WIRE EXTENSION REPLACEMENT ACTUATOR
TYPE 8A ACTUATOR 5.5 IN.-LSZ 4012
TYPE 8B ACTUATOR 7.5 IN.-LSZ 4013
TYPE 8C COIL ACTUATOR 5.5 IN.-LSZ 4014
ACTUATOR 9.5 IN. - LSZ4036

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.

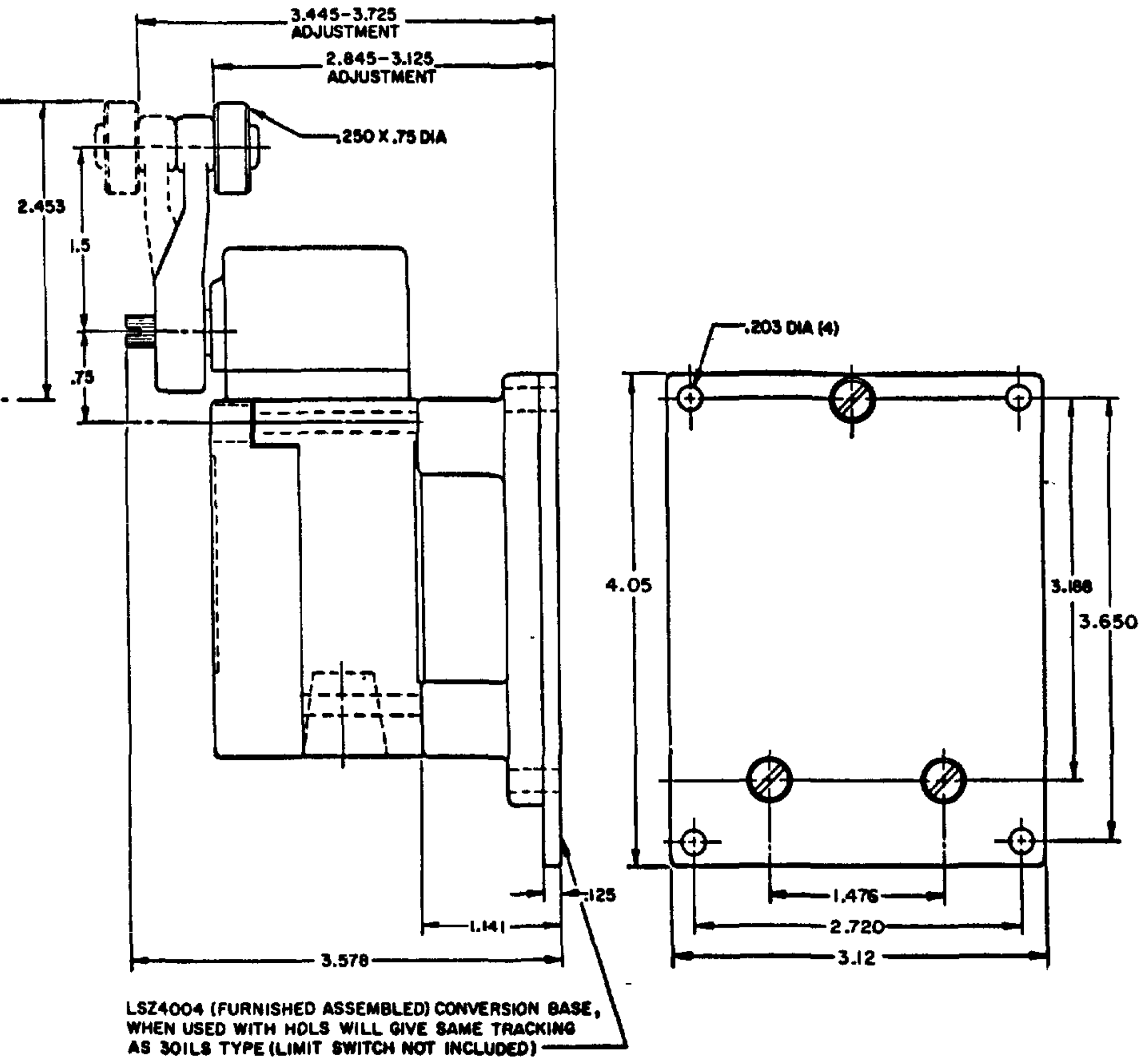
	CAT WHISKER			WOBBLE STICK		
	5 1/2" COIL	5 1/2" WIRE	7 1/2" WIRE	ROD	CABLE	WIRE
PRETRAVEL (APPROX) IN. RADIUS	2	.2	4.5	1.0	1.5	4.0
OPERATING FORCE-OZ (MAX)	7.0	5.0	3.0	10.0	7.0	5.0

CONVERSION BASES

SINGLE POLE (SIDE ROTARY) LSZ 4003

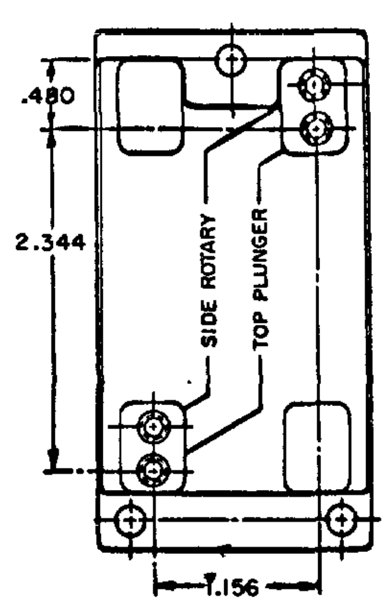


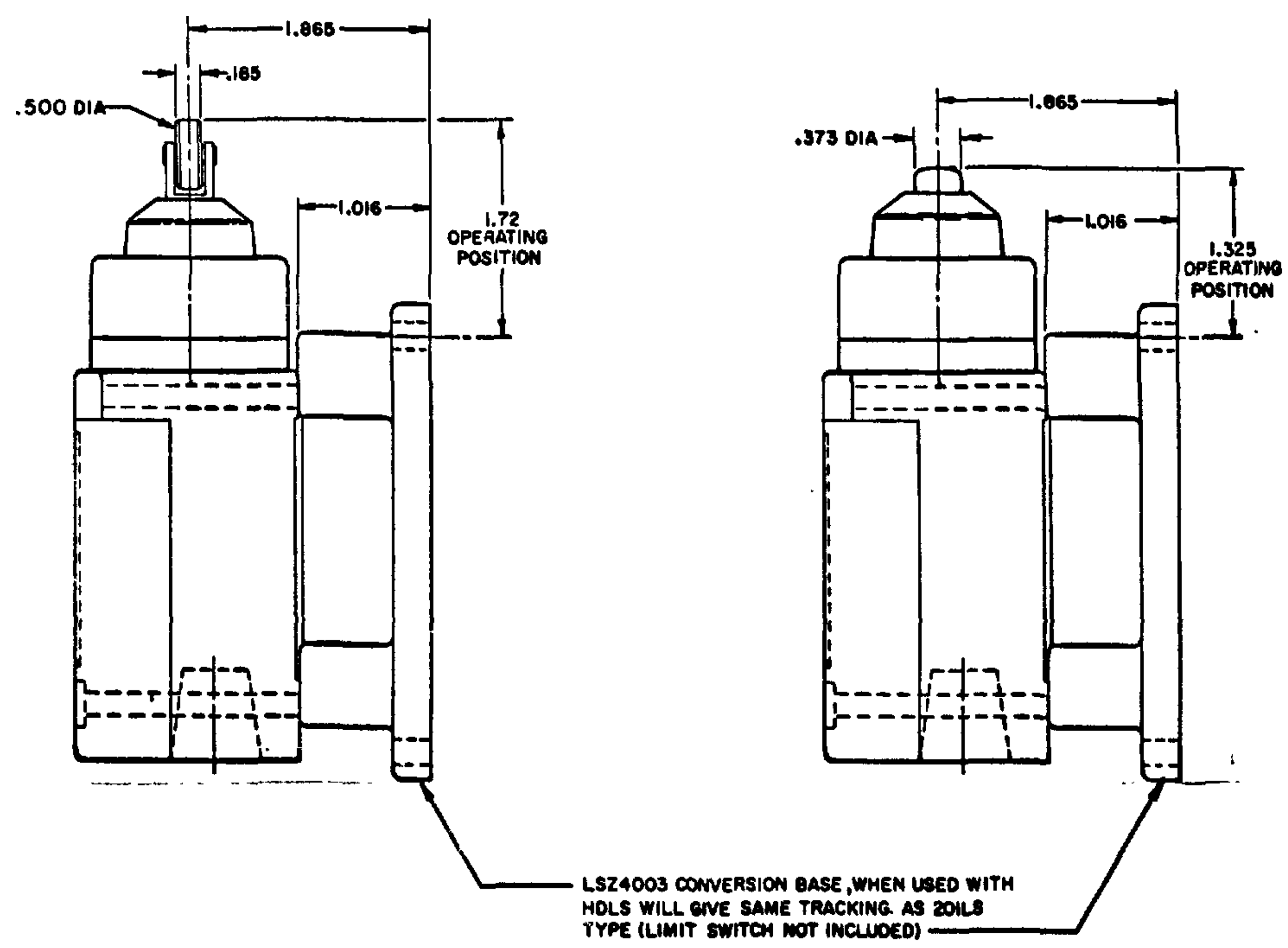
DOUBLE POLE (SIDE ROTARY) LSZ4004



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	CELLULUBE	DETERGENT	5 STAR	ASTM #1	ASTM #2	ASTM #3	ASTM #4	HOUGHTO SAFE 271 1010 1055	HOUGHTO SAFE 620 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	4	1	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	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	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	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	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	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	2	1	2	1	2	4	1	4	3	4	4	2	2	2
LSH	4	1	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	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	2	1	2	1	2	4	1	4	3	4	4	2	2	2
LSL	4	1	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	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	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	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	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	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	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

CATALOG LISTING M LSA-LSW SERIES CHART 1 PAGE 10 OF 10 | ISSUE 12 | RELEASE NO CO-78498 | 10JUL07 | REPLACES LSA-LSW SERIES

REVISIONS						
L 0031956 BS 10JUL07						
B 201004 CSL 10 AUG 00						
C 201748 CSL 17 NOV 00						
D 202198 CSL 25 JAN 01						
E 204871 GJW FEB 02						
F 206581 GLH 14OCT02						
G 206763 CSL 31 OCT 02						
H 207179 GLH 14 JAN 03						
J 207474 TSM 18FEB03						
K 0006871 KR 11AUG04						
CHECK	11AUG04	AK	CHECK	11 JUL 94	JAF	CHECK
PSR	10JUL07					
DRAWN	15 JUN 94	MAM				

RASTER

MICRO SWITCH a Honeywell Division
FED MFG CODE 91929

SWITCH – ENCLOSED

CATALOG LISTING
LSA-LSW SERIES
CHART 1

SCALE

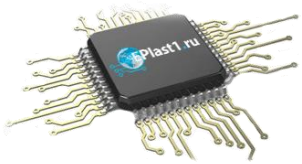
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.