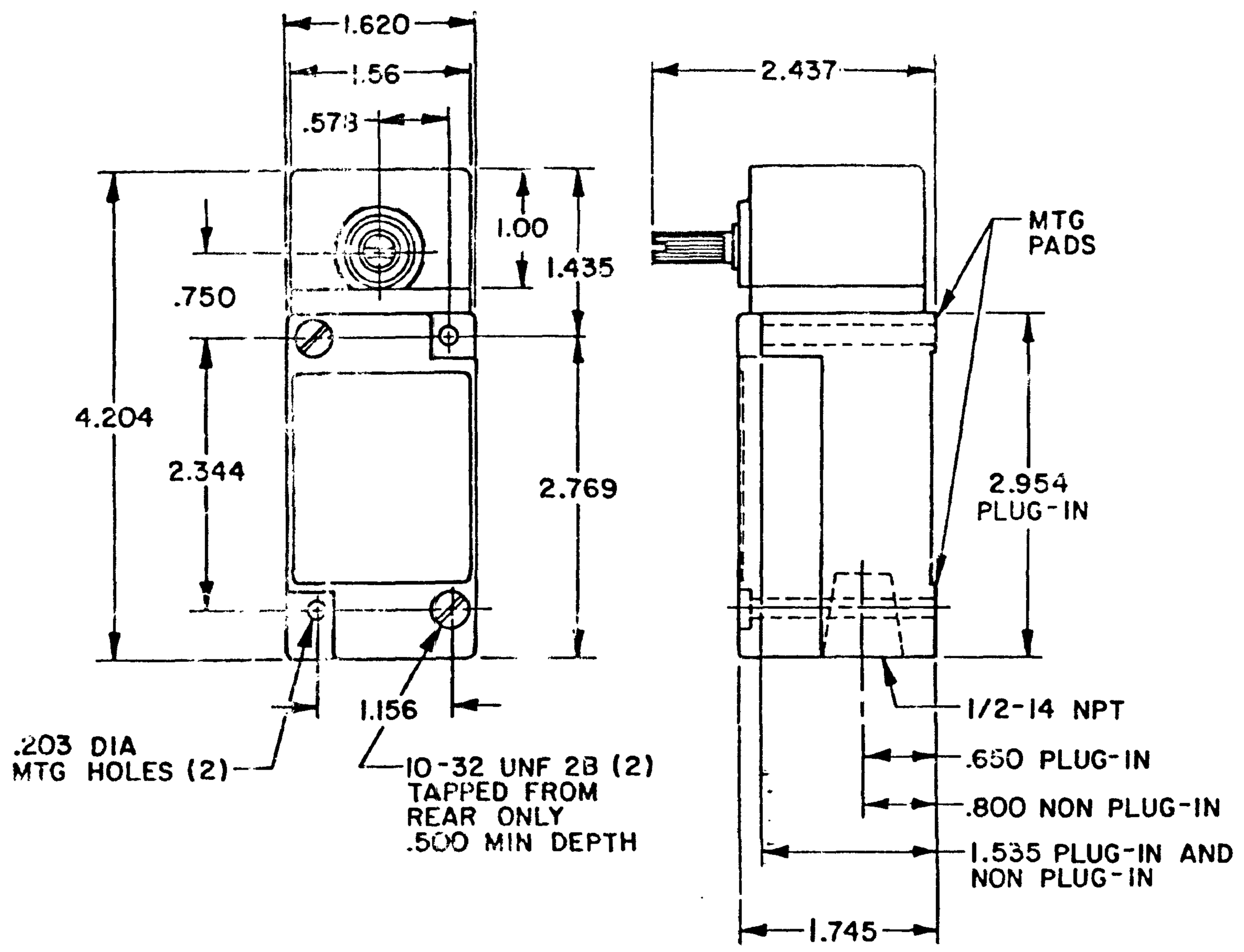
OPERATING CHARACTERISTICS	LSA MOMENTARY	LSR MOMENTARY LOW TORQUE	LSN MAINTAINED	LSP MOMENTARY LOW PRETRAVEL AND DIFF. TRAVEL	LSH MOMENTARY LOW PRETRAVEL AND LOW TORQUE
PRETRAVEL(MAX)	15°	15°	65°	9°	9°
OVERTRAVEL(MIN)	60°	60°	20°	66°	66°
DIFFERENTIAL TRAVEL(MAX)	SINGLE POLE 5° / DOUBLE POLE 7°	SINGLE 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

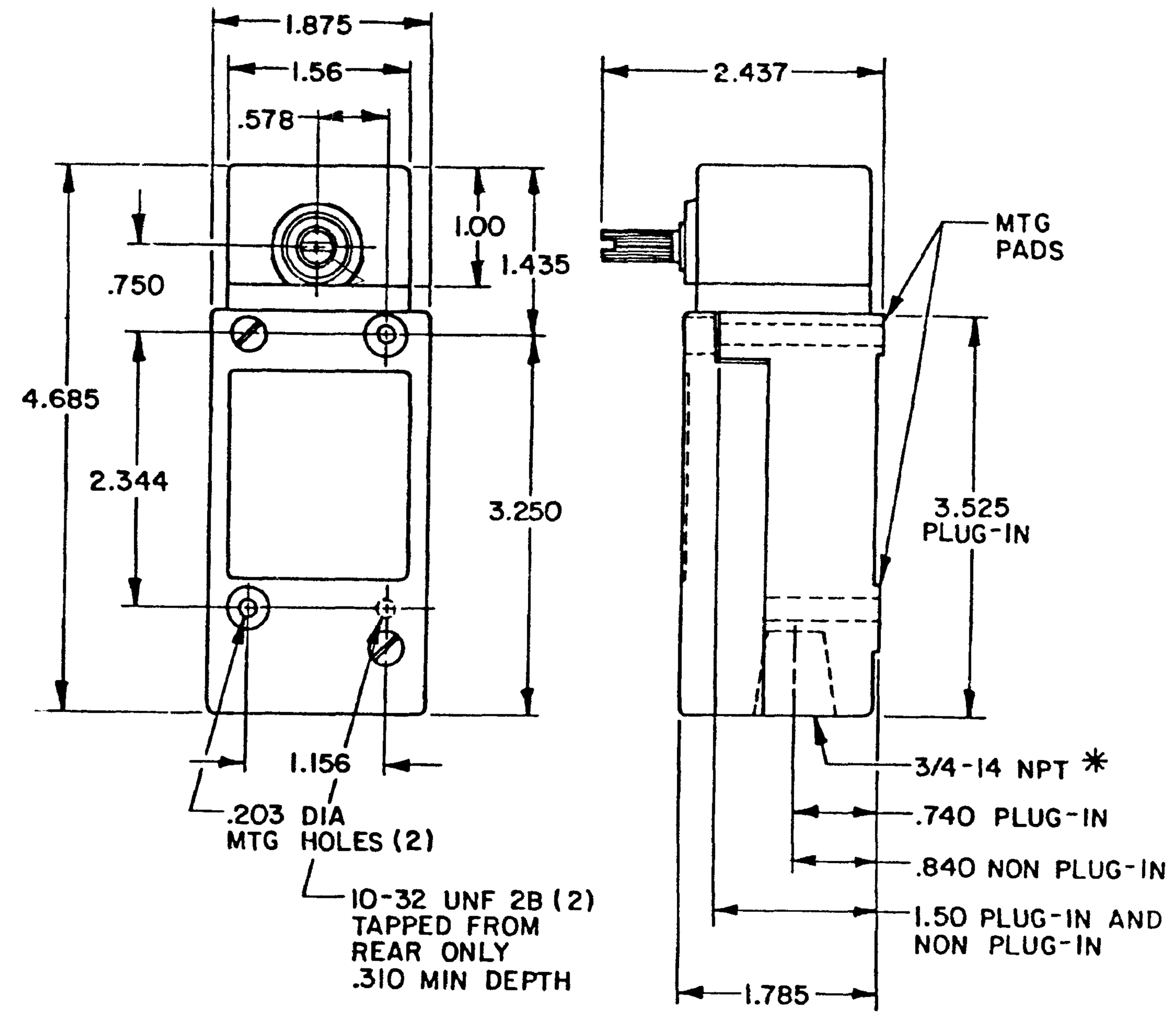
SIDE ROTARY

SINGLE POLE



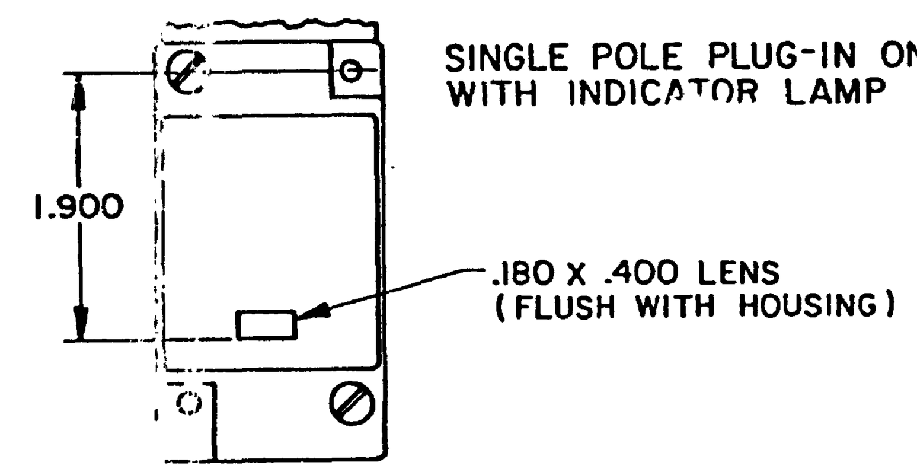
TYPE: LSA1, LSH1, LSN1, LSP1, LSR1
LSA3, LSH3, LSN3, LSP3, LSR3
LSS1, LST1

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)

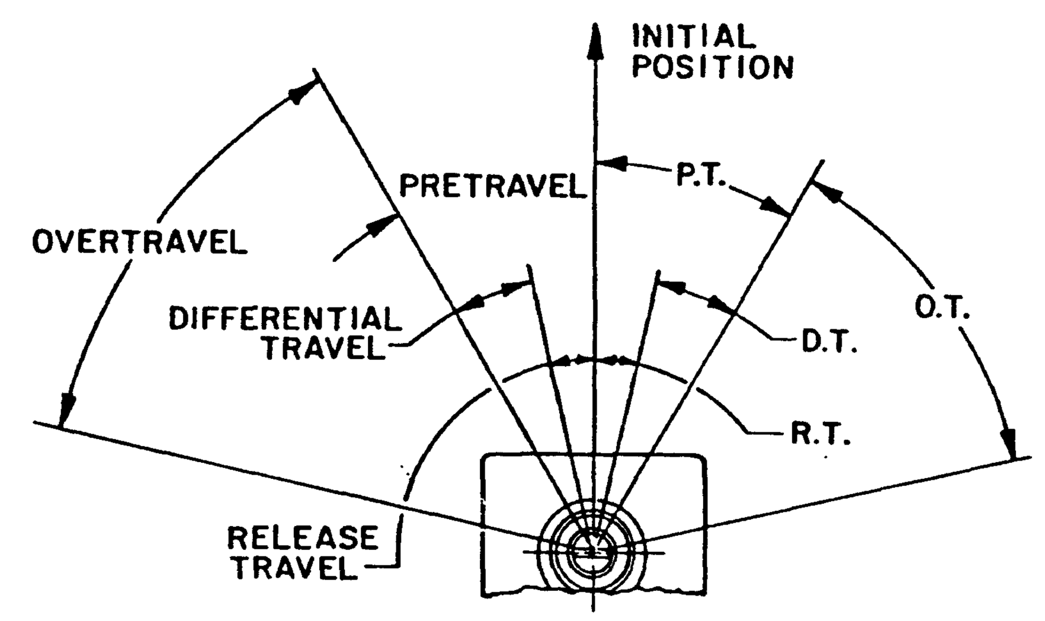


SINGLE POLE PLUG-IN ONLY
WITH INDICATOR LAMP

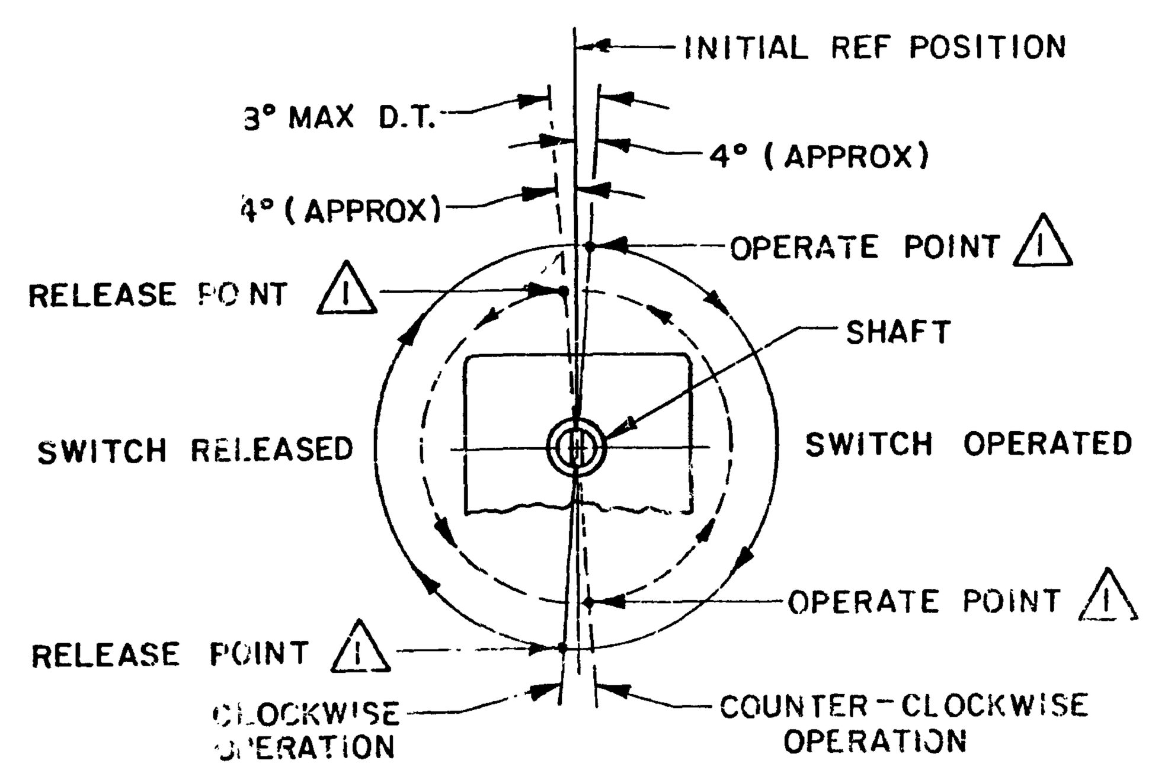
120 LAMP VOLTAGE -
TYPE LSA5, LSH5, LSN5, LSP5, LSR5

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

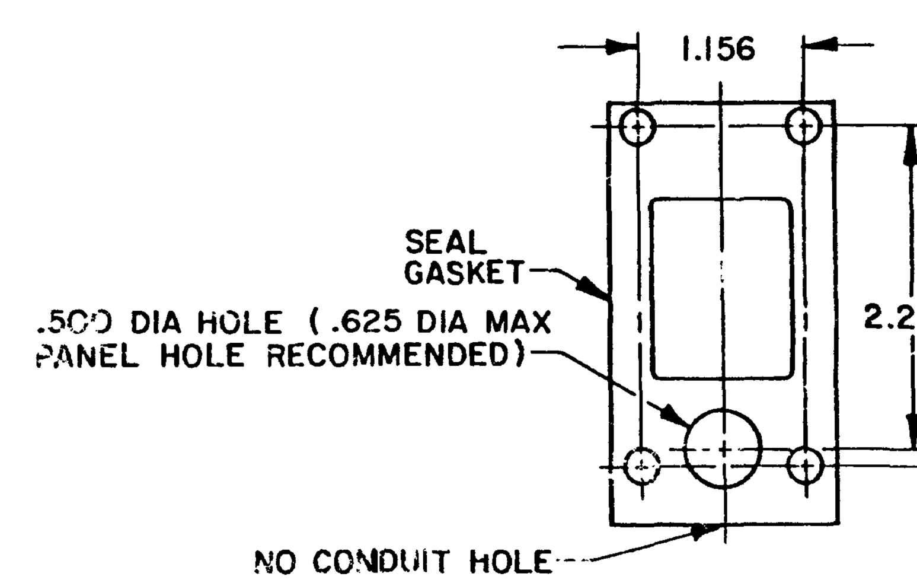
OPERATING DATA-SIDE ROTARY



OPERATING DATA
SIDE ROTARY-GRAVITY RETURN



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



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

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

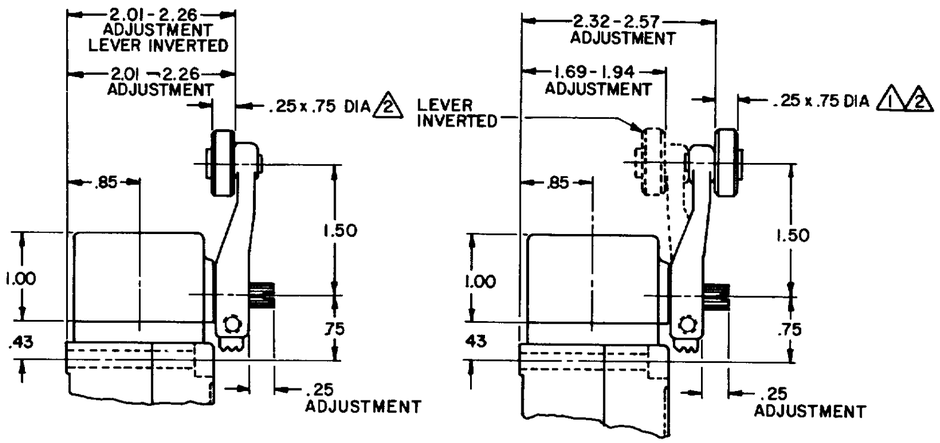
ISSUE 12
CATALOG LISTING
LSA-LSW SERIES CHART 1
PAGE 1 OF 10
PSR 10JUL07 RELEASE NO CO-78498 REPLACES LSA-LSW SERIES

REVISIONS

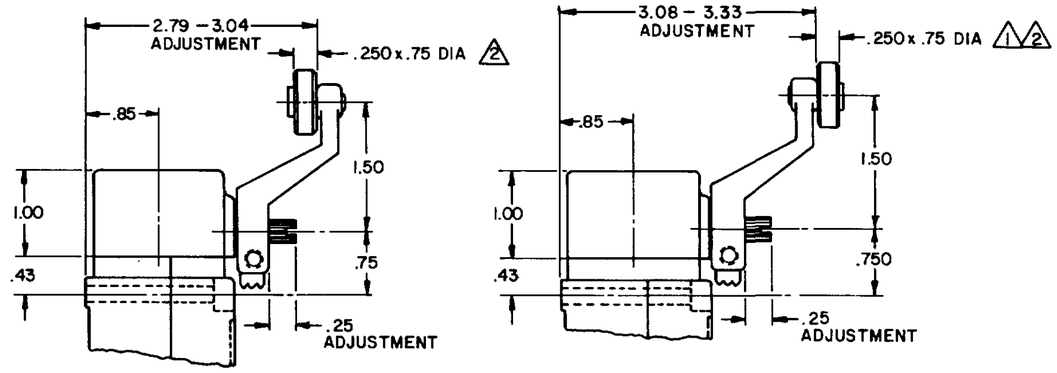
L	0031956	BS 10JUL07
B	201004	CSL 10 AUG 00
C	201748	CSL 17 NOV 00
D	202198	CSL 23 JAN 01
E	204871	GJW FEB 02
F	206581	GLH 14OCT02
G	206763	CSL 31 OCT 02
H	207179	GLH 14 JAN 03
J	207474	TSM 18FEB03
K	0006871	KR 11AUG04

CHECK 11AUG04 AK CHECK 11 JUL 94 JAF CHECK 15 JUN 94 MAM
DRAWN
RASTER

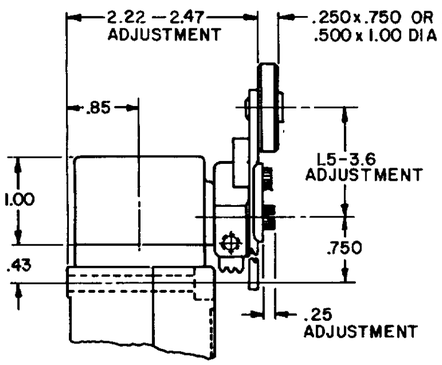
SIDE ROTARY CAM TRACKING



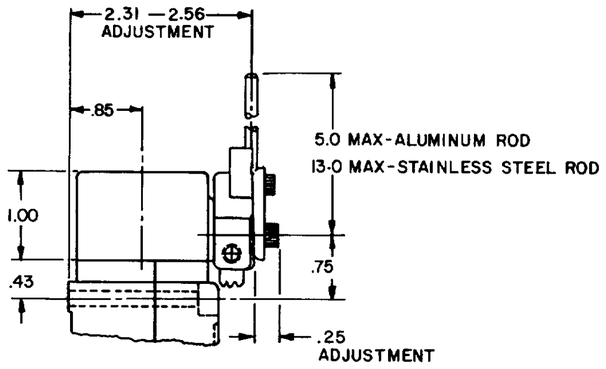
LSZ51 TYPE LEVERS



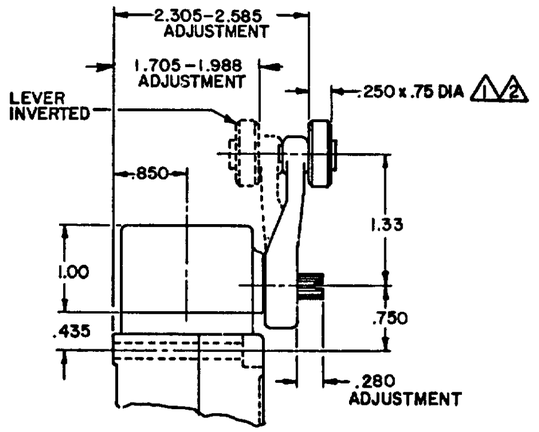
LSZ55 TYPE LEVERS



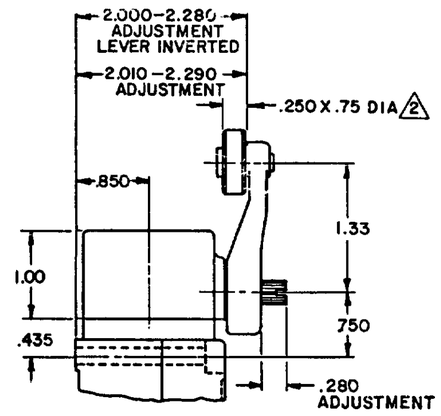
LSZ52 TYPE LEVER



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 12 PSR 10JUL07 RELEASE NO CO-78498 REPLACES LSA-LSW SERIES

REVISIONS			
L	0031956	BS 10JUL07	11AUG04
B	201004	CSL 10 AUG 00	AK
C	201748	CSL 17 NOV 00	CHECK
D	202198	CSL 23 JAN 01	CHECK
E	204871	CJW FEB 02	11 JUL 94
F	206581	GLH 14OCT02	JAF
G	206763	CSL 31 OCT 02	CHECK
H	207179	GLH 14 JAN 03	
J	207474	TSM 18FEB03	
K	0006871	KR 11AUG04	15 JUN 94

RASTER DRAWN MAM

MICRO SWITCH a Honeywell Division FED MFG CODE 91929 | SWITCH – ENCLOSED | CATALOG LISTING LSA-LSW SERIES CHART 1

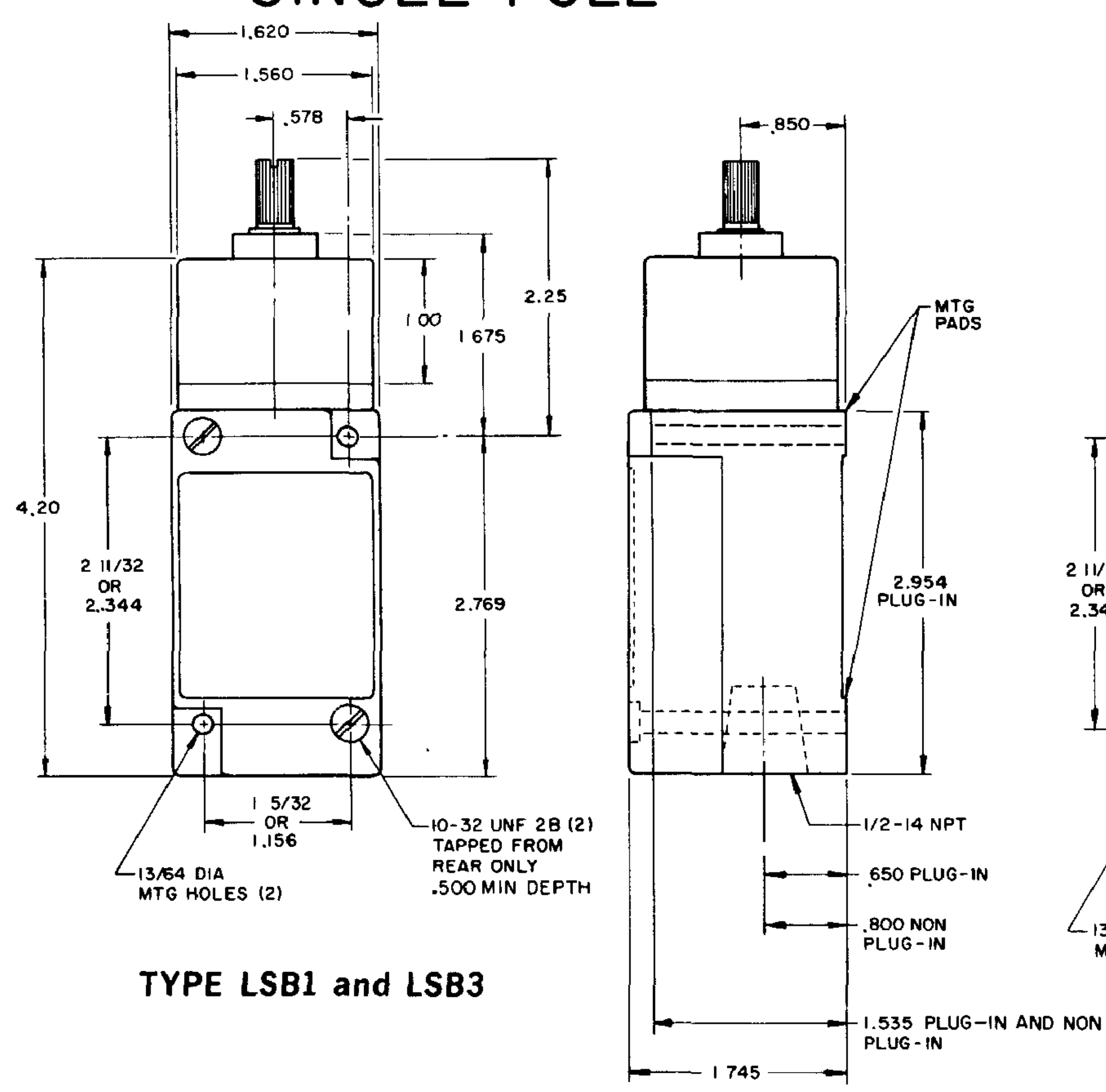
THIRD ANGLE PROJECTION
SCALE NONE
DO NOT SCALE PRINT
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE	(0)	±.030
TWO PLACES	(00)	±.015
THREE PLACES	(.000)	±.005
ANGLES		±

WEIGHT

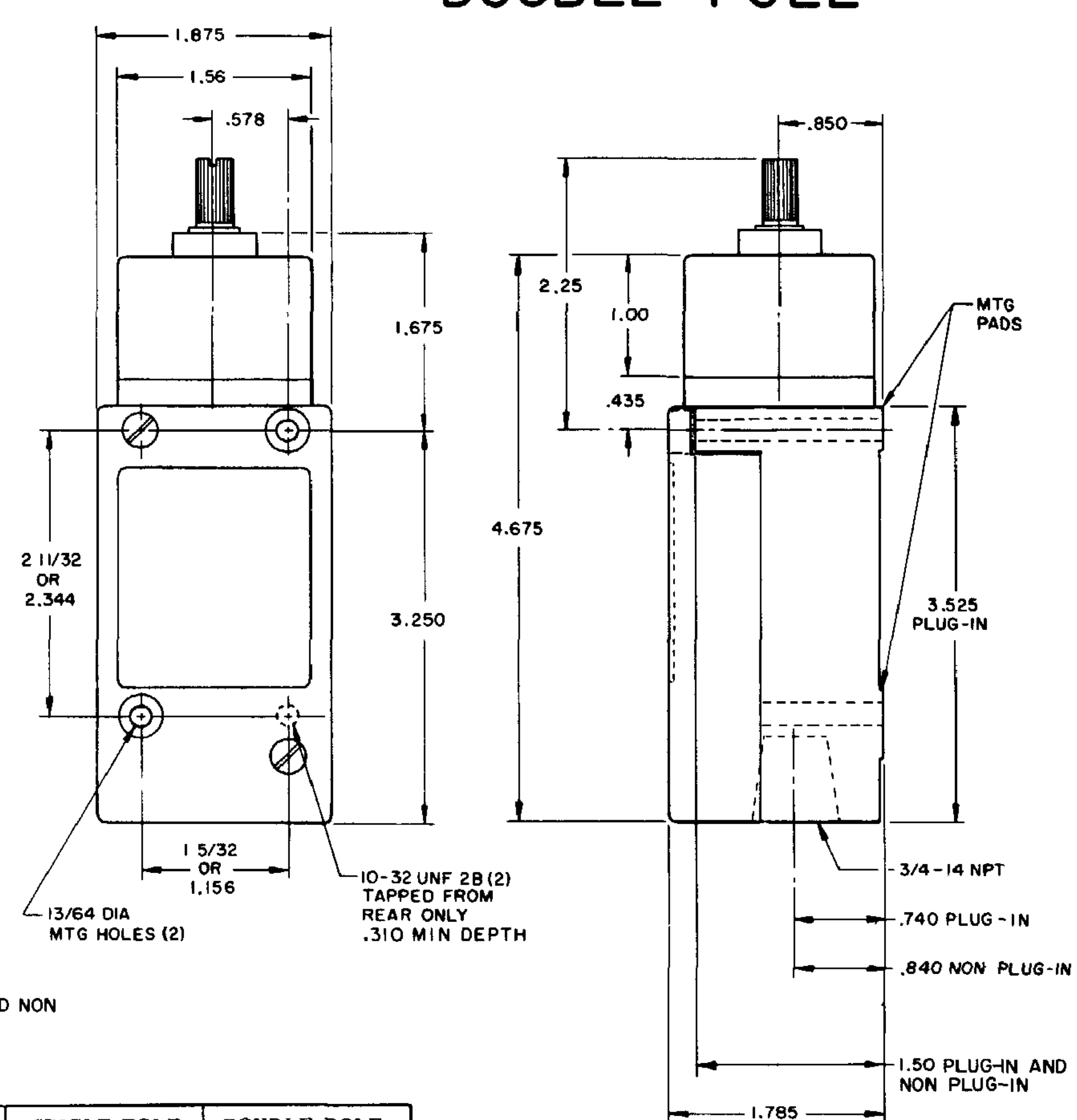
TOP ROTARY

SINGLE POLE



TYPE LSB1 and LSB3

DOUBLE POLE



TYPE LSB2 and LSB4

LSB6 and LSB7 have ½ - 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

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

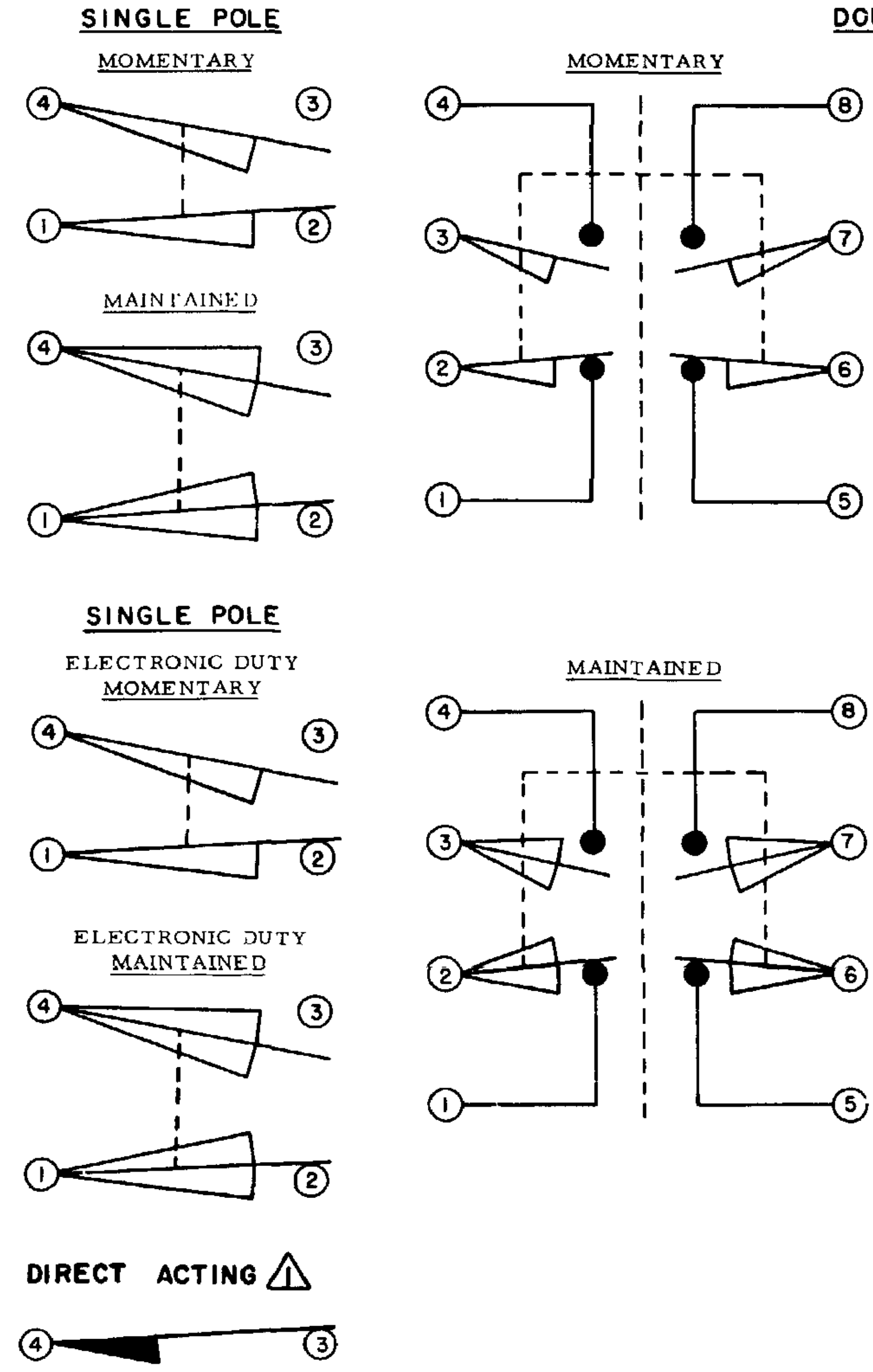
ELECTRONIC DUTY BASIC SWITCH
10 AMP CONT

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)



NOTES
⚠1 DIFFERENTIAL TRAVEL ON ALL OPERATING CHARACTERISTICS NOT APPLICABLE

MICRO SWITCH a Honeywell Division FED MFG CODE 91929

SWITCH - ENCLOSED

CATALOG LISTING LSA-LSW SERIES CHART 1

SCALE NONE
DO NOT SCALE PRINT

[redacted]

CATALOG LISTING		
ISSUE 12	M LSA-LSW SERIES CHART 1 PAGE 4 OF 10	
PSR	10JUL07	RELEASE NO CO-78498
REPLACES	LSA-LSW SERIES	

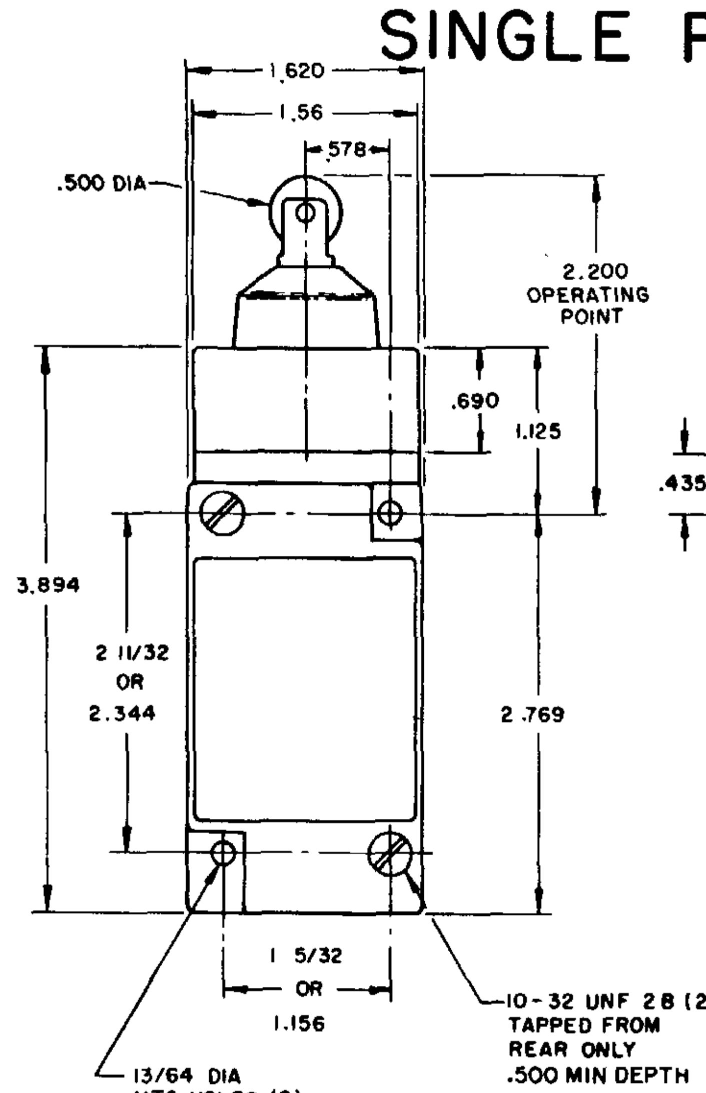
REVISIONS		
L	0031956	BS 10JUL07
B	201004	CSL 10 AUG 00
C	201748	CSL 17 NOV 00
D	202198	CSL 23 JAN 01
E	204871	GJW FEB 02
F	206581	GLH 14OCT02
G	206763	CSL 31 OCT 02
H	207179	GLH 14 JAN 03
J	207474	TSM 18FEB03
K	0006871	KR 11AUG04

RASTER

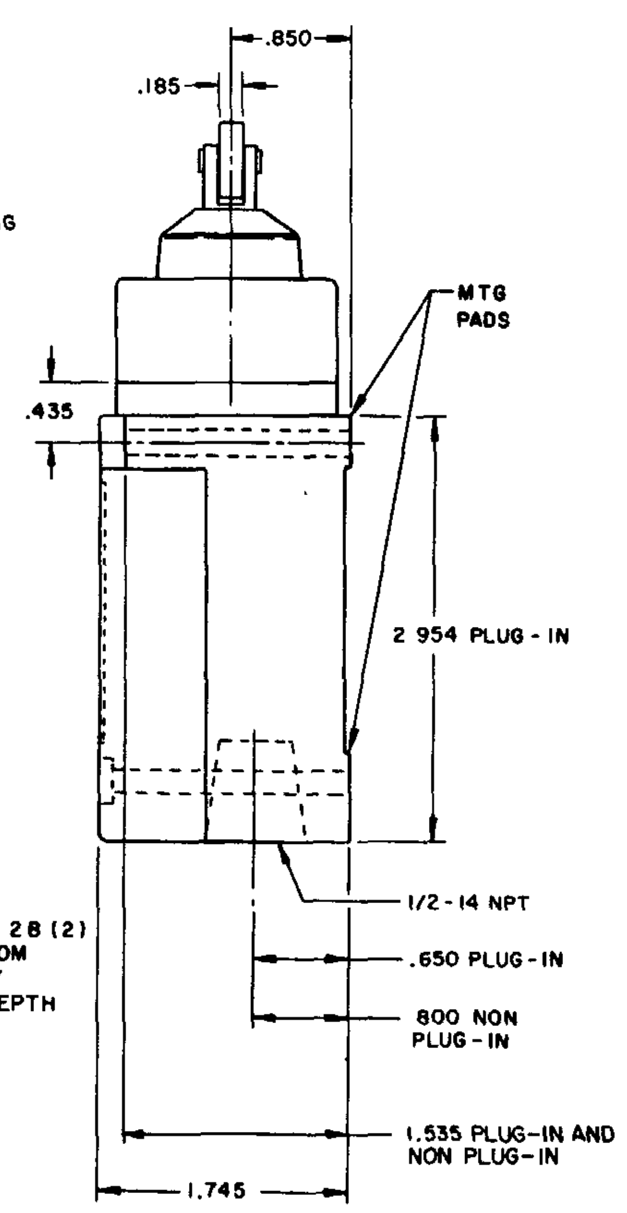
DRAWN MAM 15 JUN 94 CHECK JAF 11 JUL 94 CHECK AK 11AUG04 CHECK

PLUNGER TYPE TOP

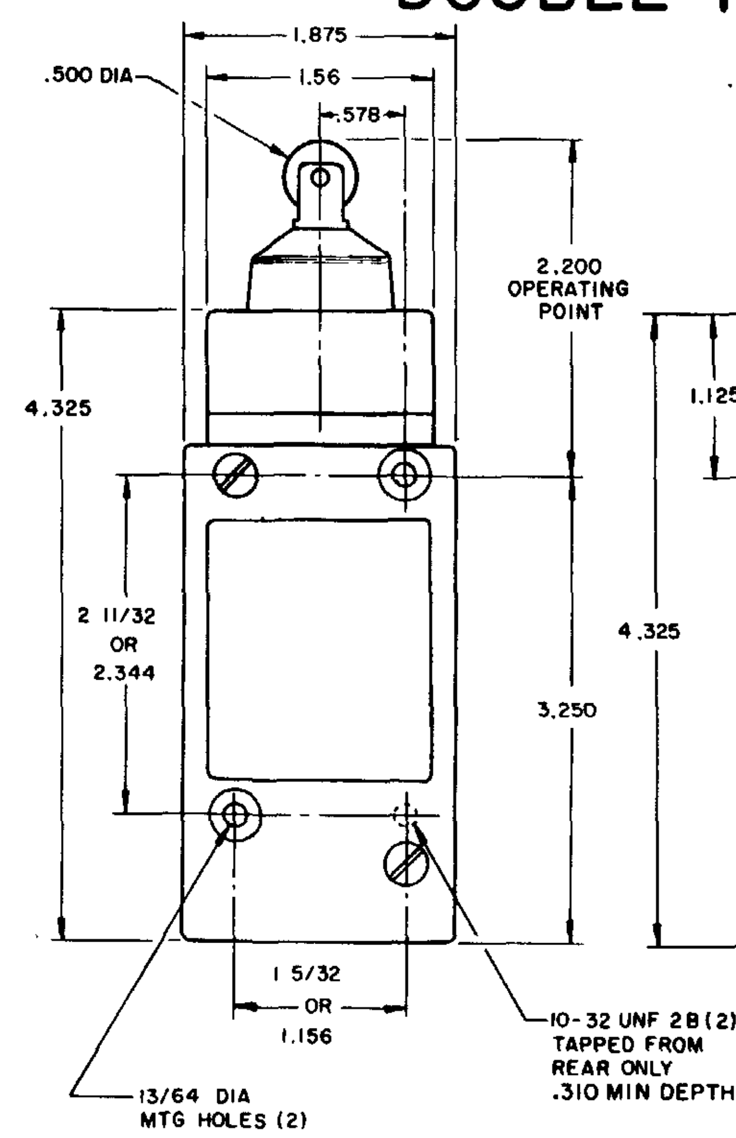
SINGLE POLE



TYPE LSD1 and LSD3

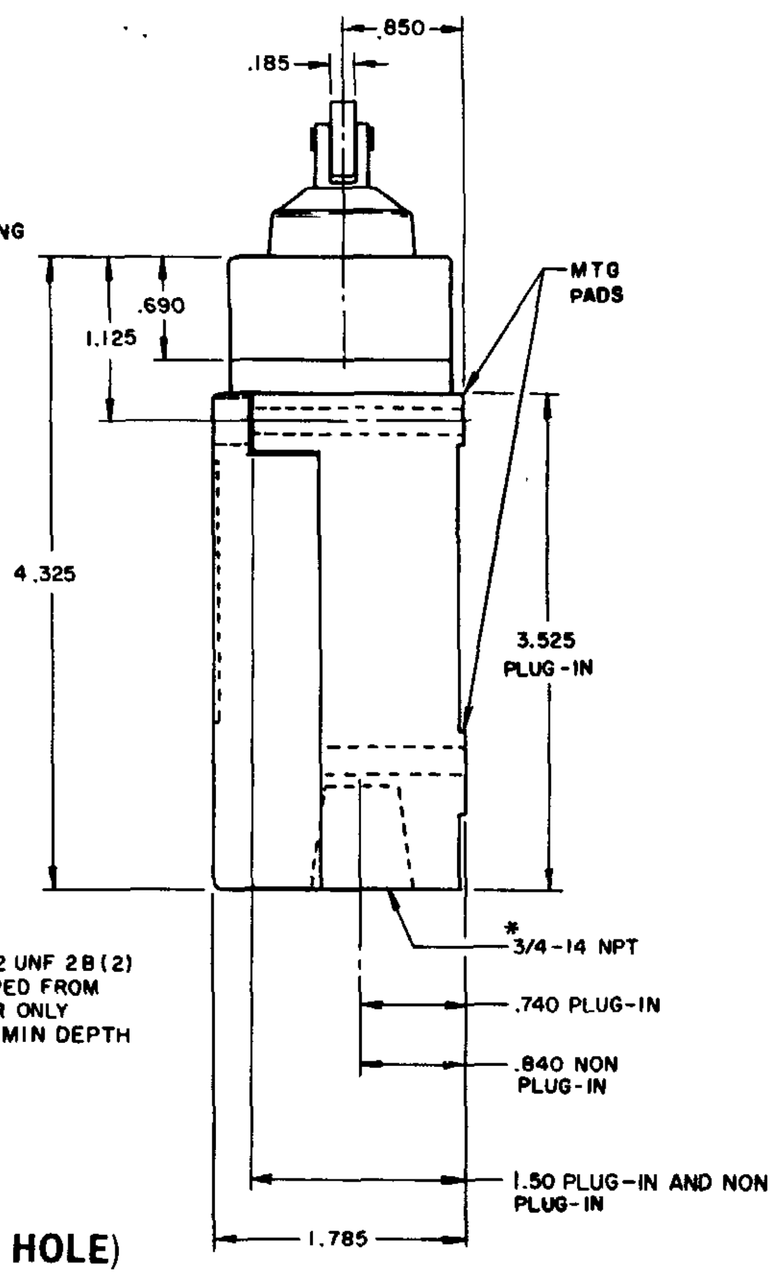


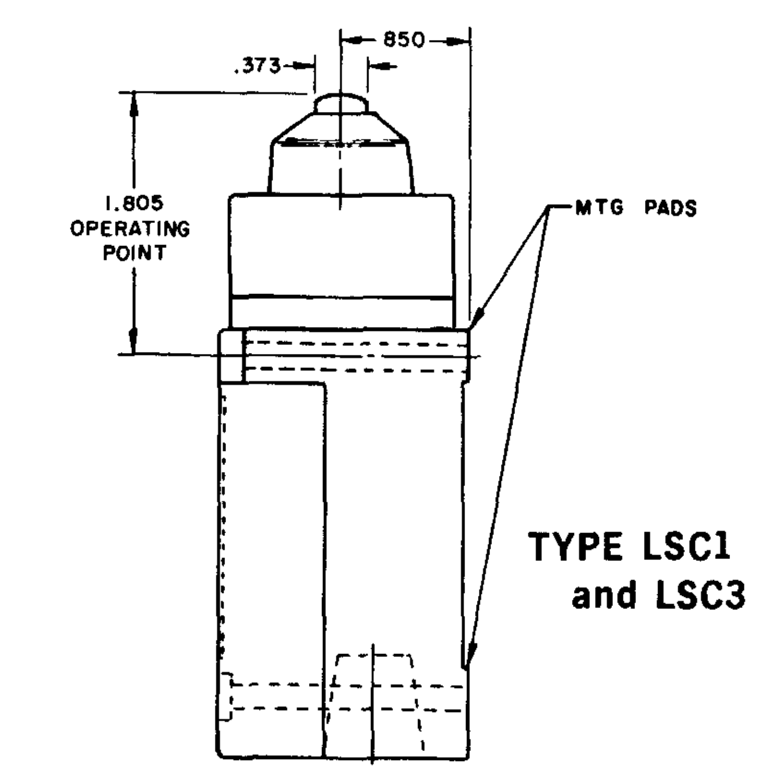
DOUBLE POLE



TYPE LSD2 and LSD4

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

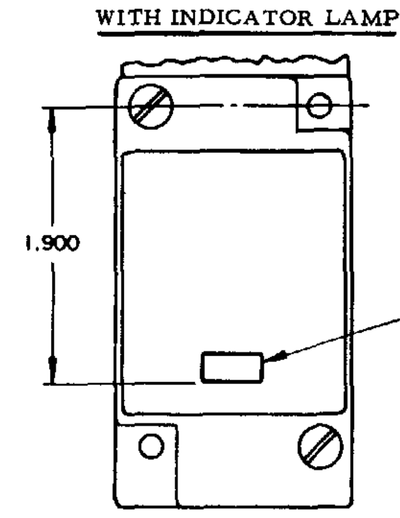




TYPE LSC1 and LSC3

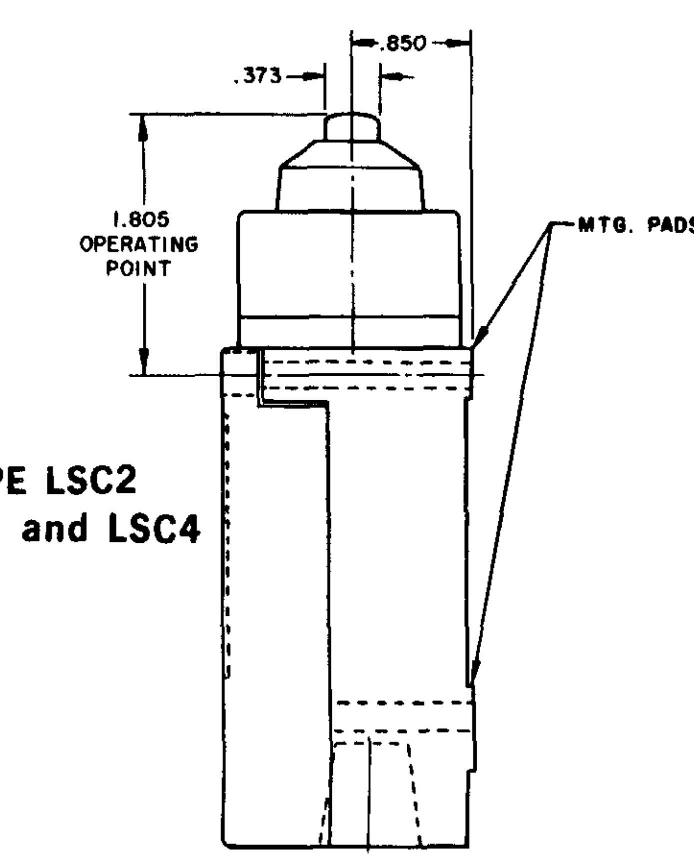
SINGLE POLE PLUG-IN ONLY

WITH INDICATOR LAMP

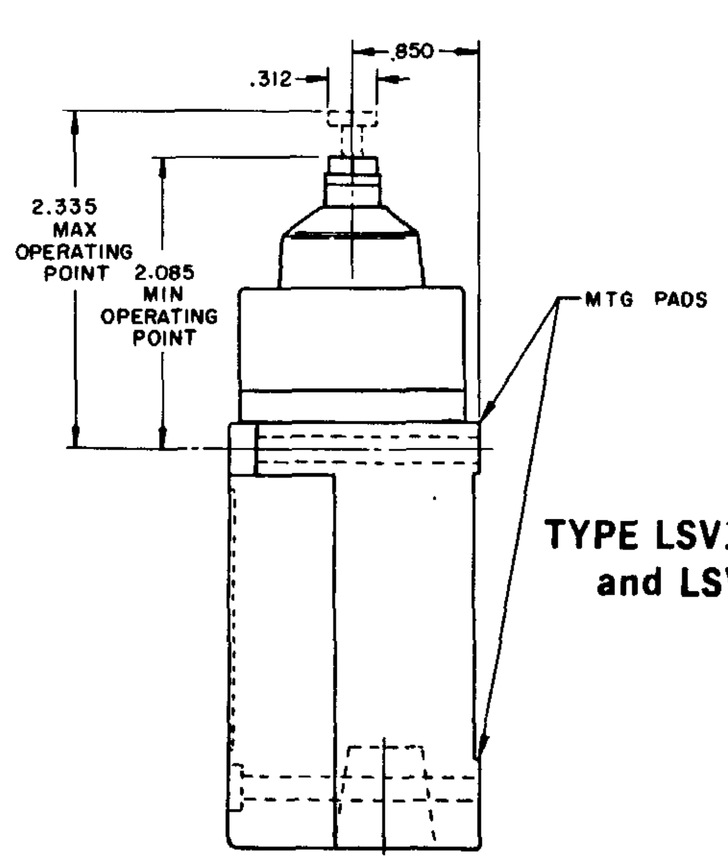


120 LAMP VOLTAGE - TYPE LSC5, LSD5 or LSV5

240 LAMP VOLTAGE - TYPE LSC8, LSD8 or LSV8



TYPE LSC2 and LSC4

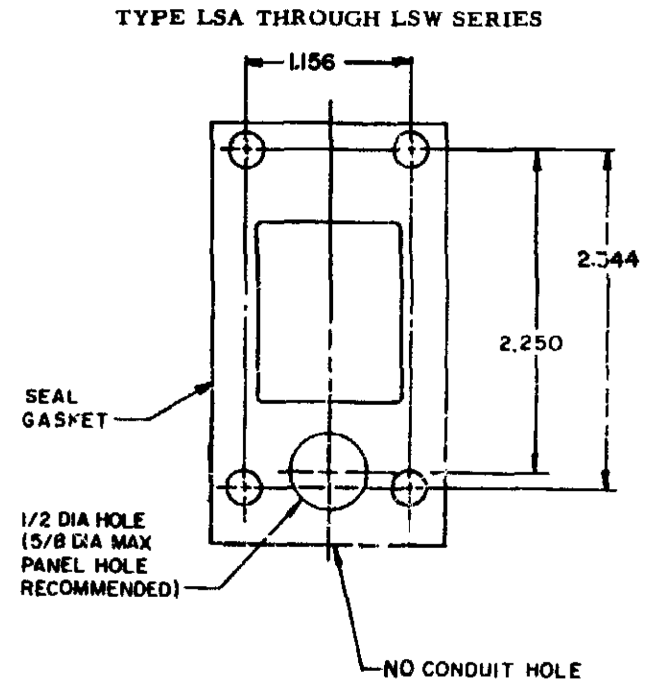


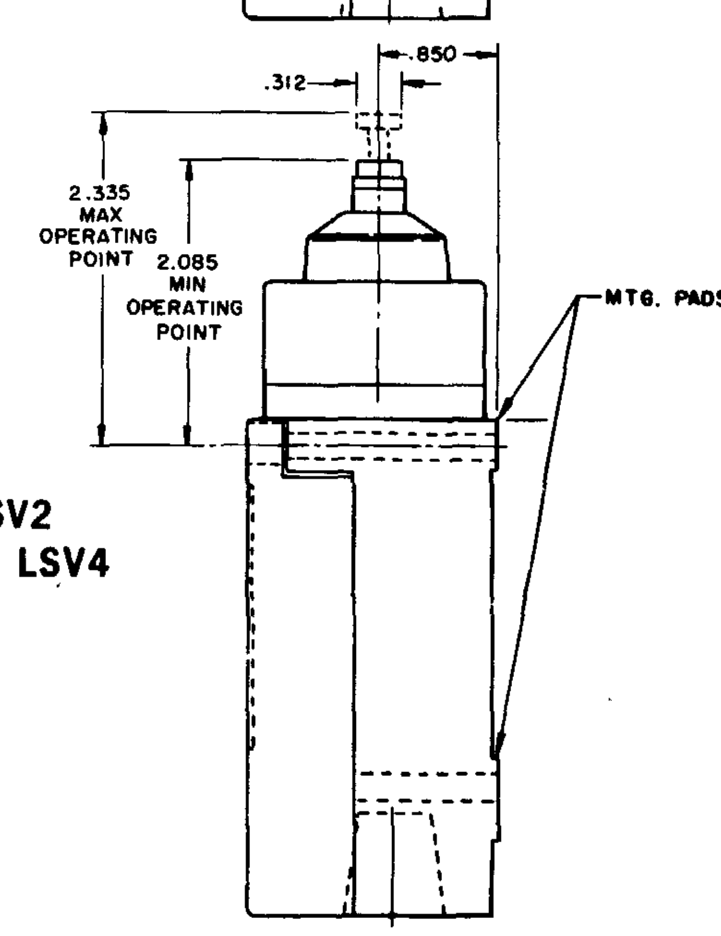
TYPE LSV1 and LSV3

MANIFOLD MOUNT (PLUG-IN ONLY)

SINGLE POLE AND DOUBLE POLE

TYPE LSA THROUGH LSW SERIES





TYPE LSV2 and LSV4

MICRO SWITCH a Honeywell Division
FED MFG CODE 91929

SWITCH - ENCLOSED

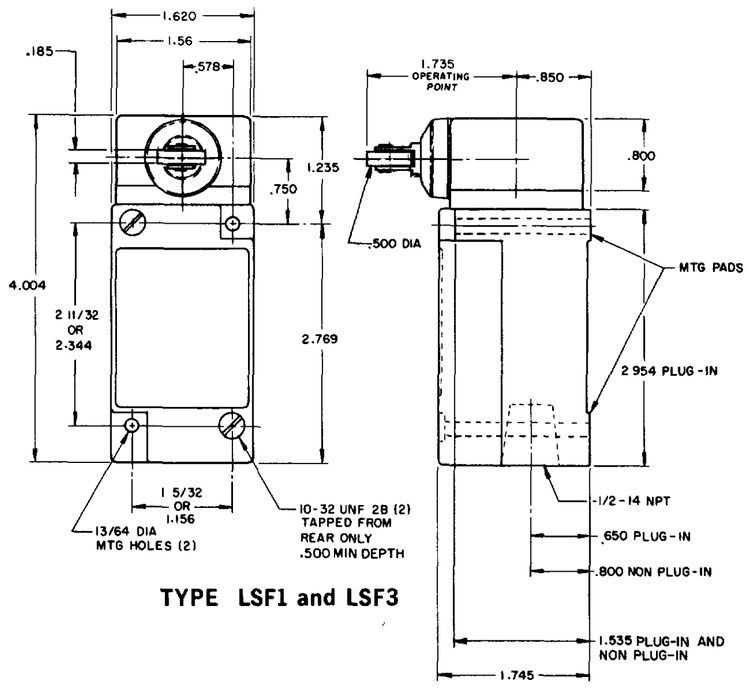
CATALOG LISTING LSA-LSW SERIES CHART 1

SCALE NONE

[redacted]

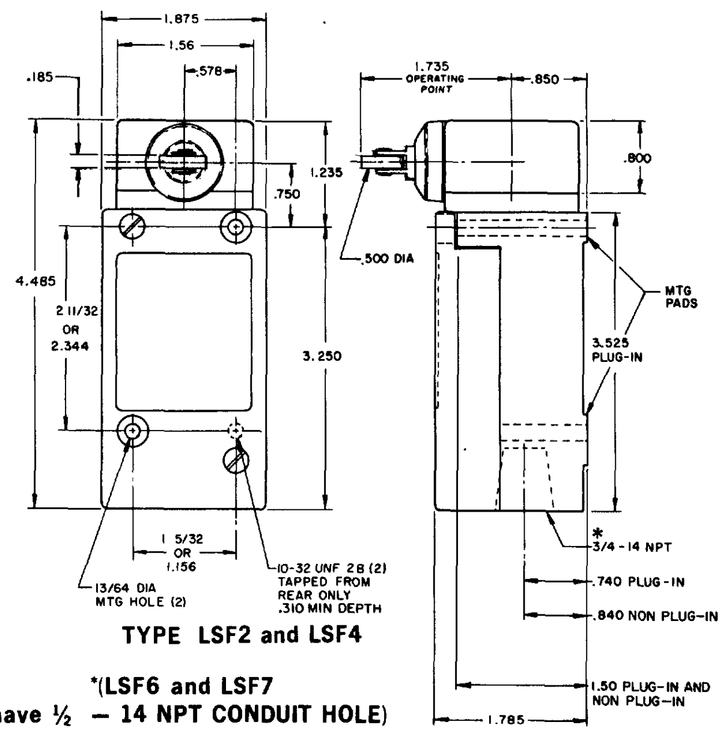
SIDE PLUNGER TYPE

SINGLE POLE



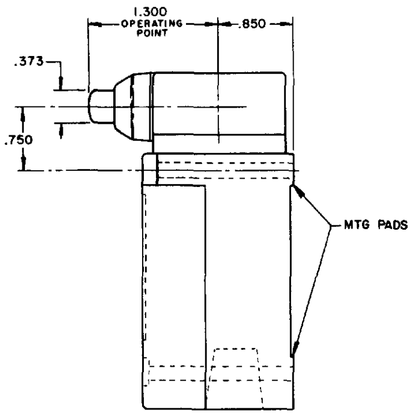
TYPE LSF1 and LSF3

DOUBLE POLE



TYPE LSF2 and LSF4

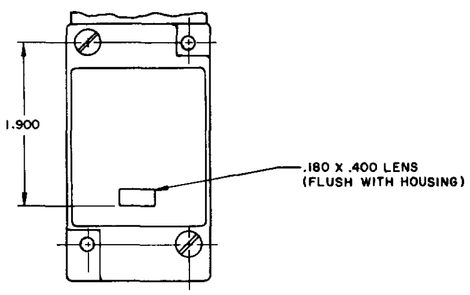
***(LSF6 and LSF7 have ½ — 14 NPT CONDUIT HOLE)**



TYPE LSE1 and LSE3

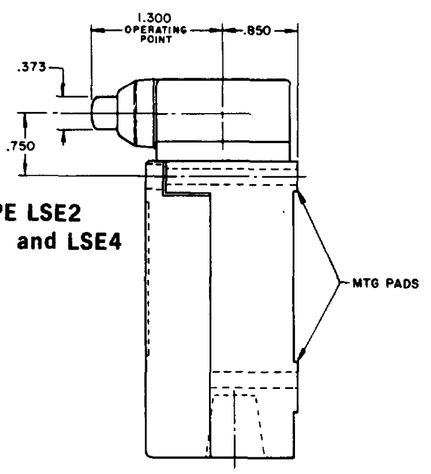
SINGLE POLE PLUG-IN ONLY

WITH INDICATOR LAMP

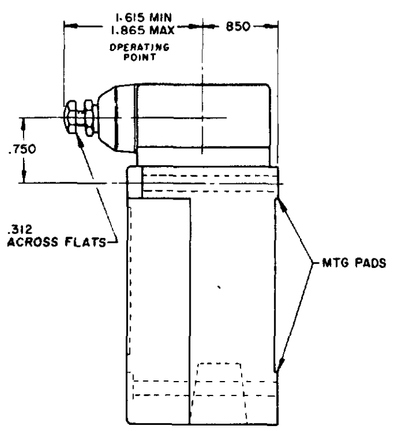


120 LAMP VOLTAGE - TYPE LSF5, LSE5 and LSW5

240 LAMP VOLTAGE - TYPE LSF8, LSE8 and LSW8



TYPE LSE2 and LSE4

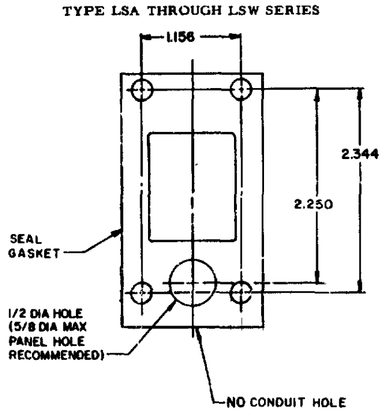


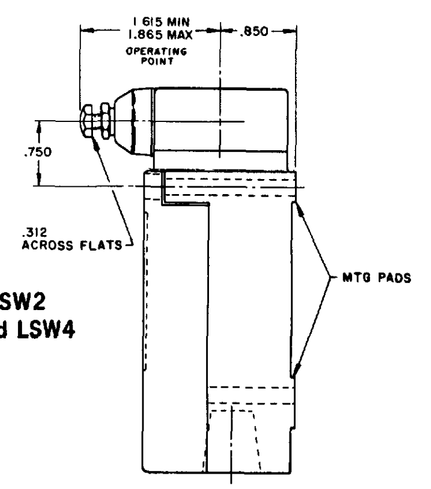
TYPE LSW1 and LSW3

MANIFOLD MOUNT (PLUG-IN ONLY)

SINGLE POLE AND DOUBLE POLE

TYPE LSA THROUGH LSW SERIES





TYPE LSW2 and LSW4

MICRO SWITCH a Honeywell Division
FED MFG CODE 91929

SWITCH – ENCLOSED

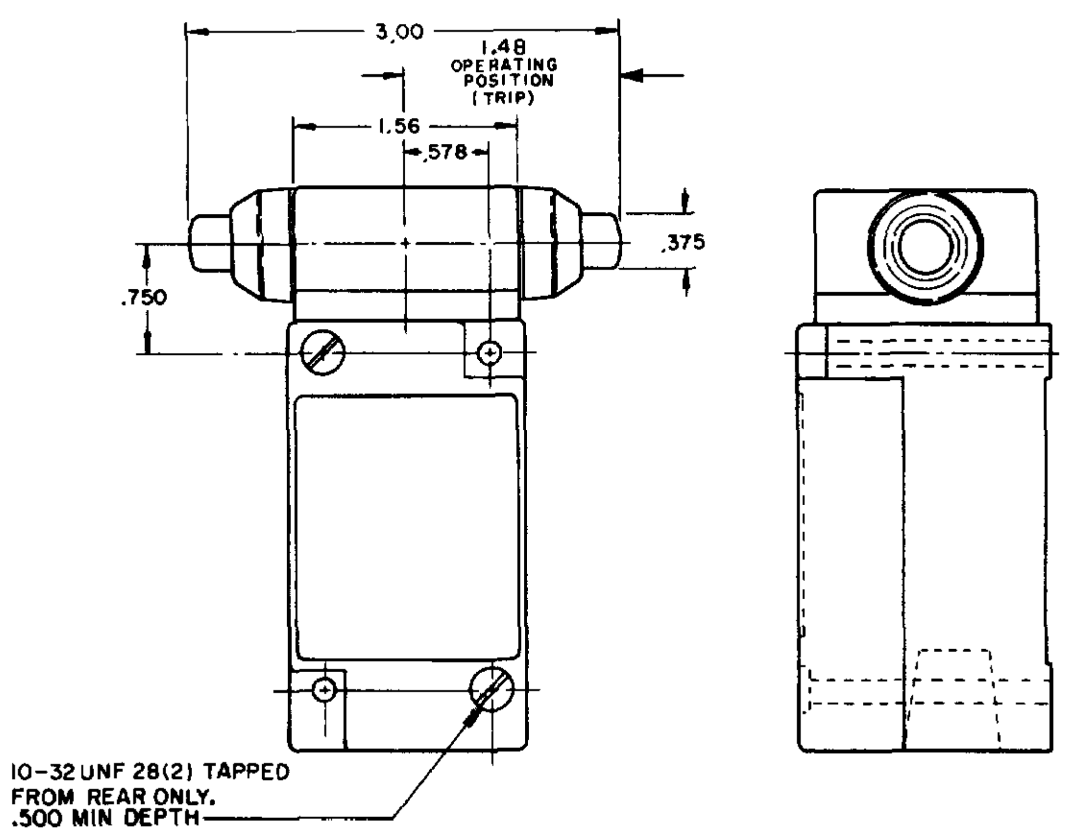
LSA-LSW SERIES CHART 1

CATALOG LISTING

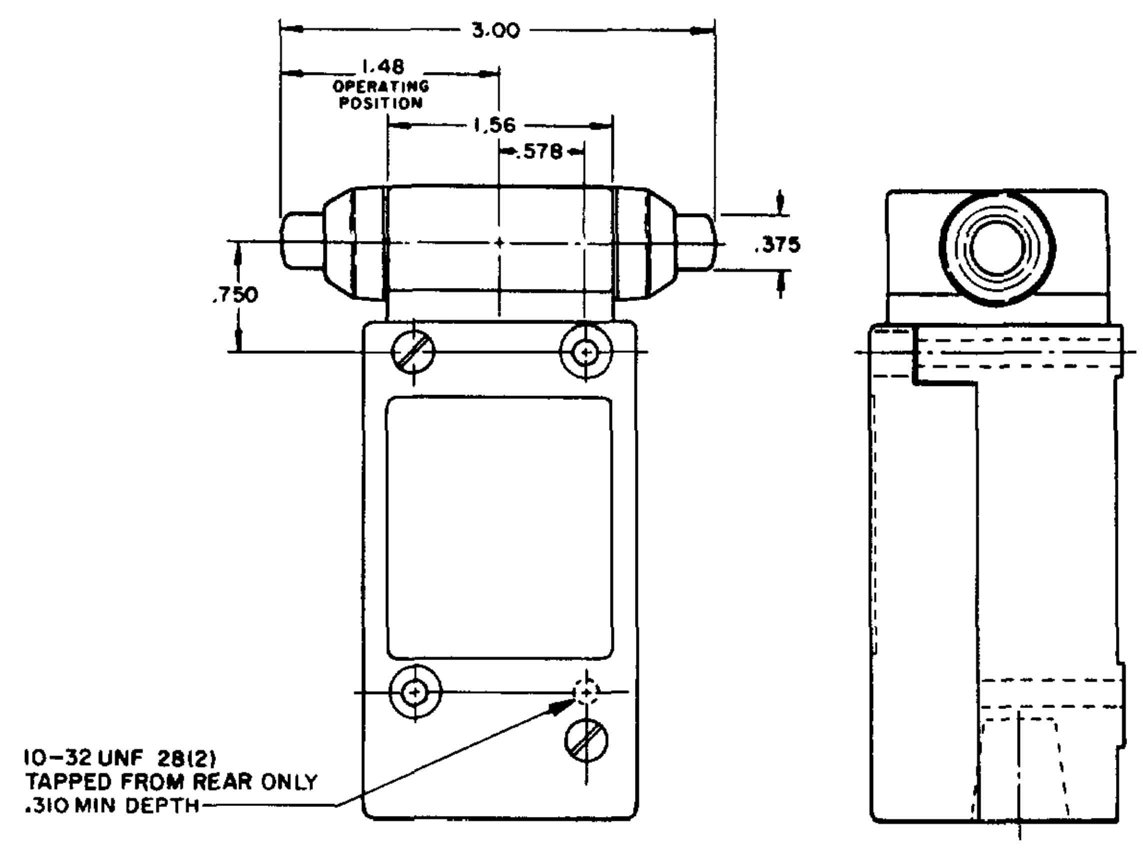
PAGE 5 OF 10

SCALE NONE

DO NOT SCALE PRINT



TYPE LSG1 and LSG3



TYPE LSG2 and LSG4

INITIAL POSITION (FREE POSITION) — PRETRAVEL / DIFFERENTIAL TRAVEL
OPERATING POINT — 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		

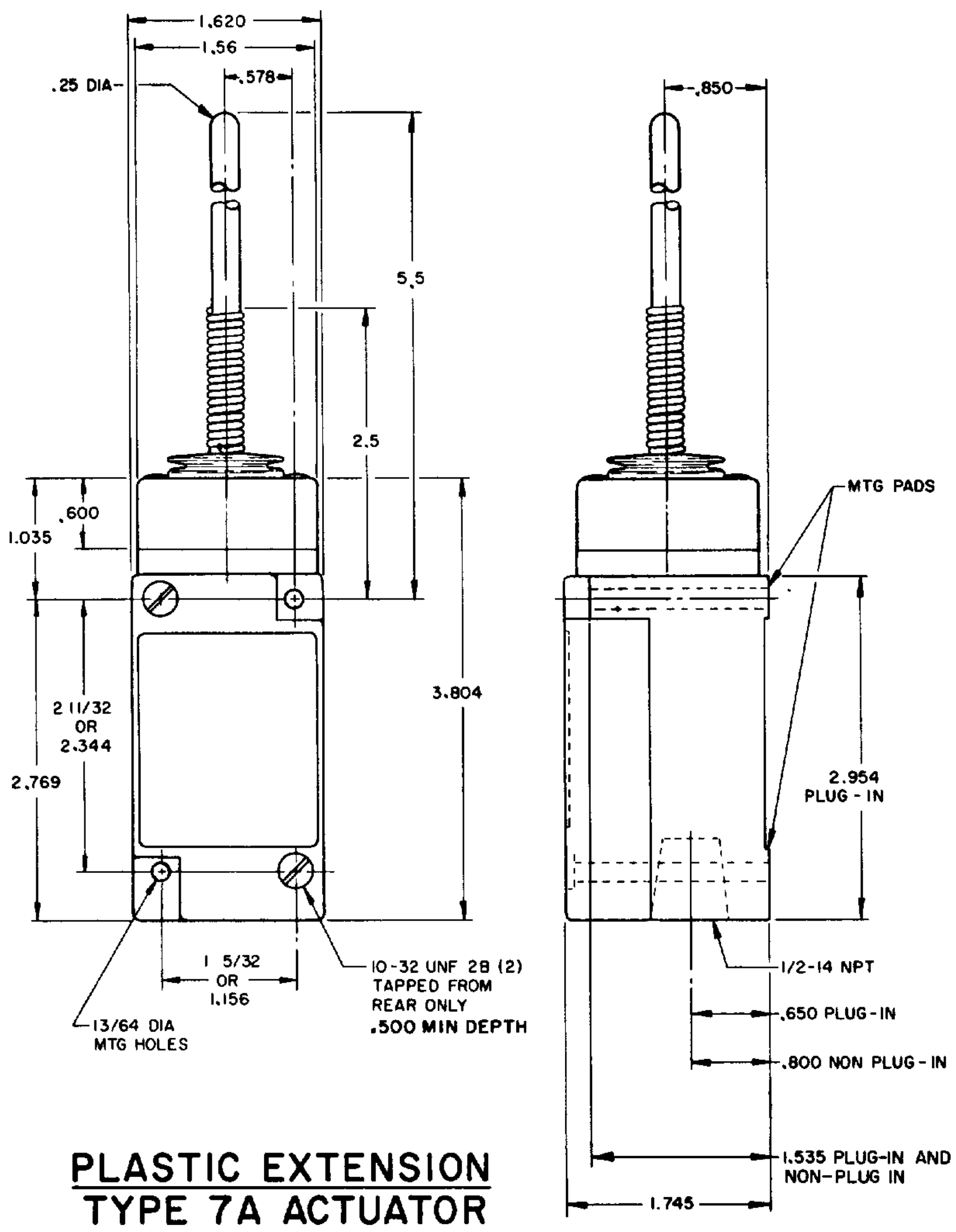
OPERATING POINT GIVEN IN RELATION TO CENTER OF HEAD

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		

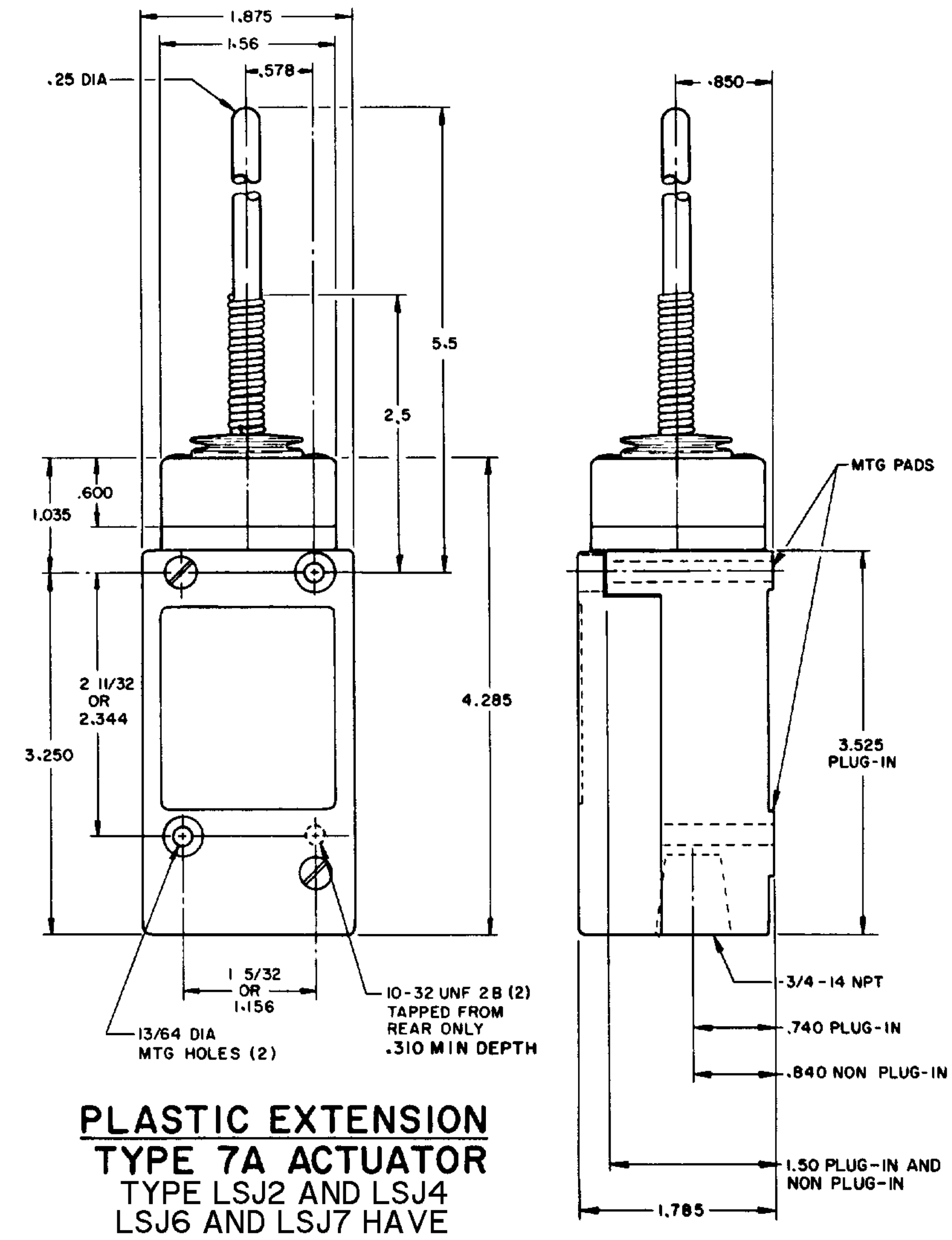
WOBBLE STICK

SINGLE POLE



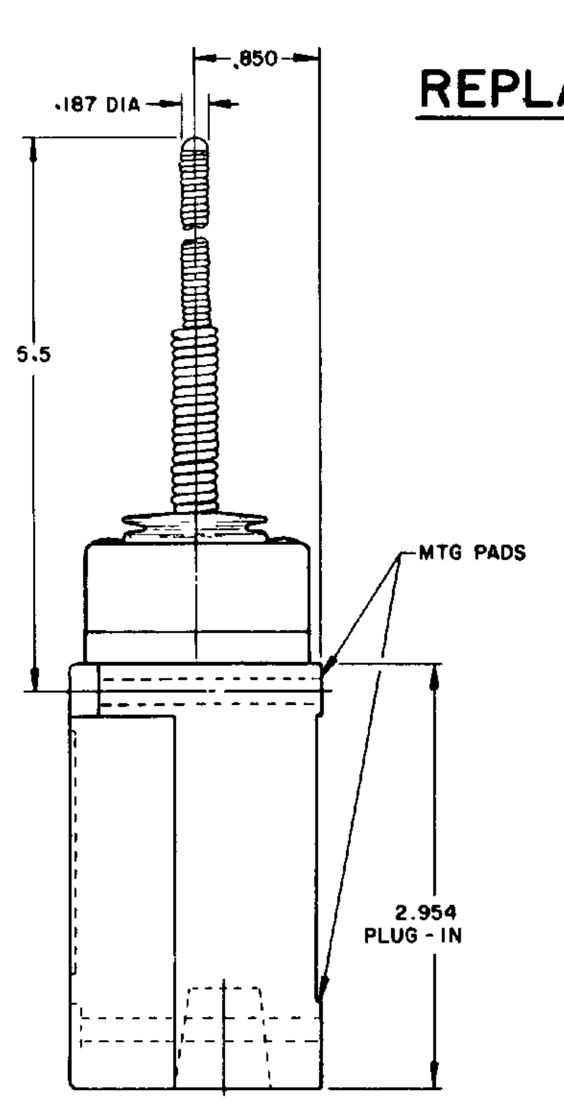
PLASTIC EXTENSION
TYPE 7A ACTUATOR
TYPE LSJ1 AND LSJ3

DOUBLE POLE

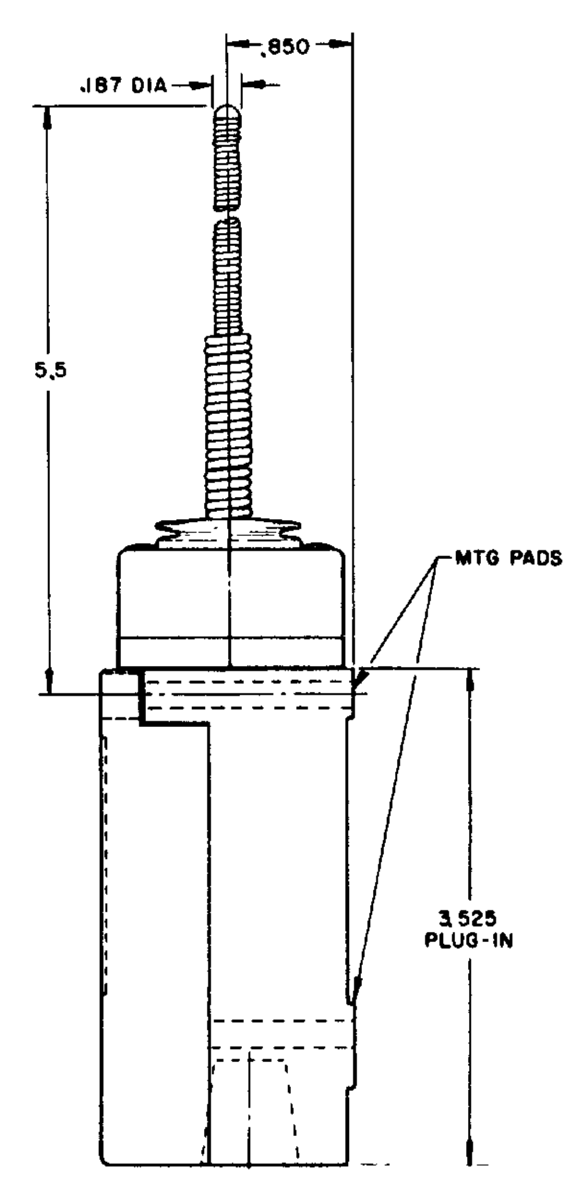


PLASTIC EXTENSION
TYPE 7A ACTUATOR
TYPE LSJ2 AND LSJ4
LSJ6 AND LSJ7 HAVE
1/2 - 14 NPT CONDUIT HOLE

REPLACEMENT ACTUATOR
LSZ-4009



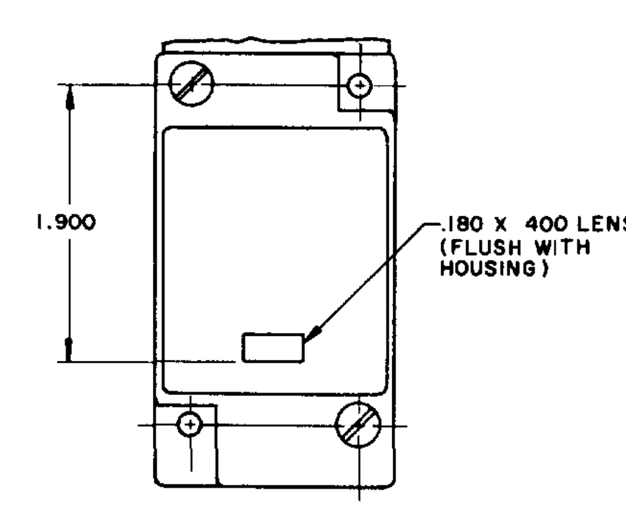
CABLE EXTENSION
TYPE 7N ACTUATOR



CABLE EXTENSION
TYPE 7N ACTUATOR

SINGLE POLE PLUG-IN ONLY

WITH INDICATOR LAMP

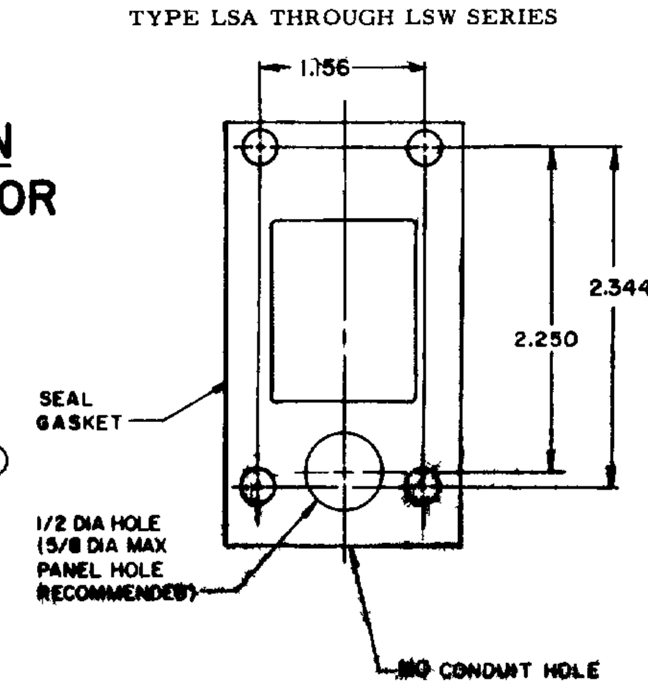


120 LAMP VOLTAGE TYPE LSJ5
240 LAMP VOLTAGE TYPE LSJ8
24 LED VOLTAGE TYPE LSJ9

MANIFOLD MOUNT (PLUG-IN ONLY)

SINGLE POLE AND DOUBLE POLE

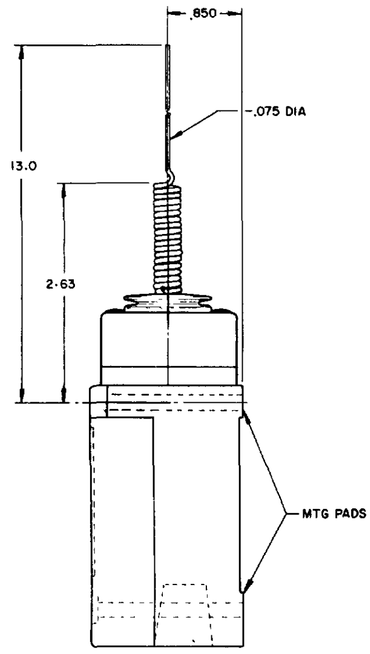
TYPE LSA THROUGH LSW SERIES



REPLACEMENT ACTUATOR
LSZ-4011

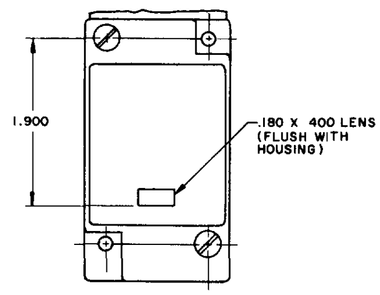
MICRO SWITCH a Honeywell Division FED MFG CODE 91929 | SWITCH - ENCLOSED | CATALOG LISTING LSA-LSW SERIES CHART 1

SCALE NONE | DO NOT SCALE PRINT

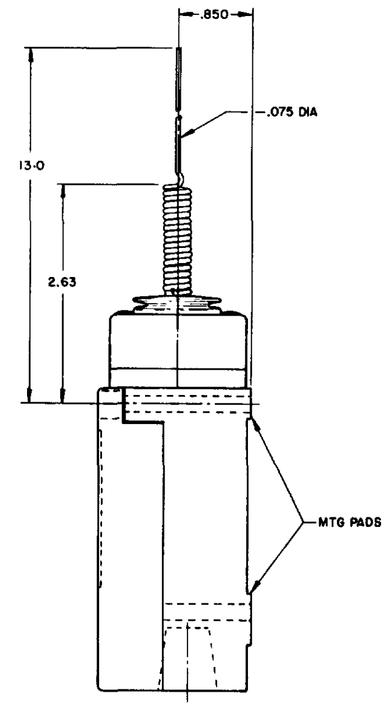


SINGLE POLE PLUG-IN ONLY

WITH INDICATOR LAMP



120 LAMP VOLTAGE TYPE LSJ5
240 LAMP VOLTAGE TYPE LSJ8



WIRE EXTENSION TYPE 7M ACTUATOR

TYPE LSJ1 and LSJ3

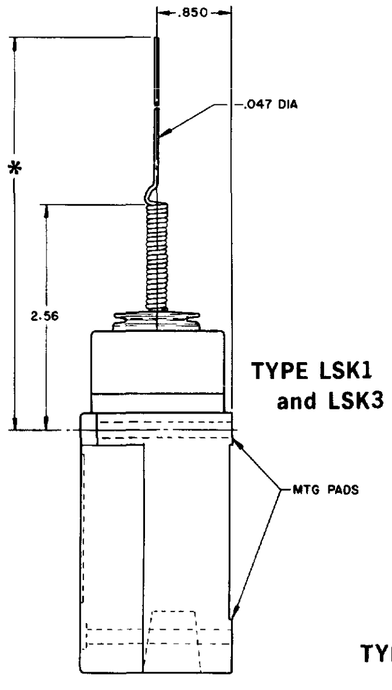
WIRE EXTENSION TYPE 7M ACTUATOR

TYPE LSJ2 and LSJ4
LSJ6 and LSJ7 have ½ - 14 NPT CONDUIT HOLE

REPLACEMENT ACTUATOR – LSZ 4010

CAT WHISKER

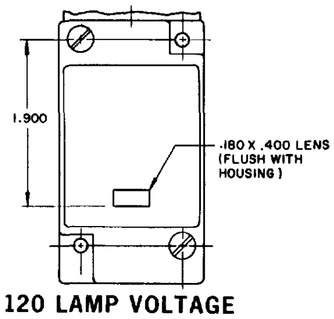
SINGLE POLE



TYPE LSK1 and LSK3

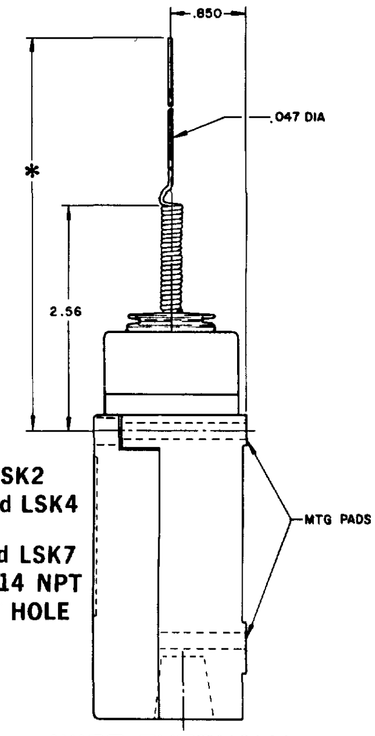
SINGLE POLE PLUG-IN ONLY

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 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.

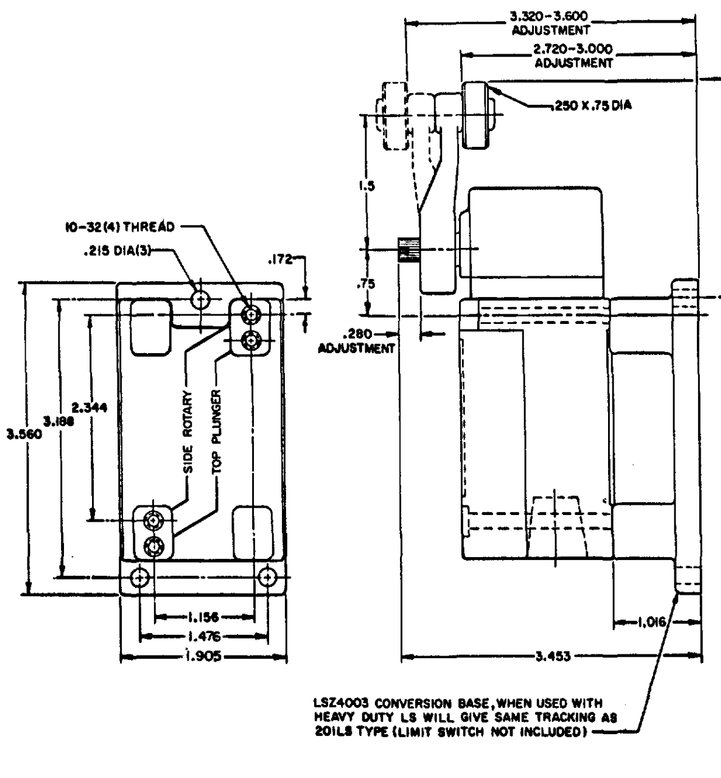
PRETRAVEL (APPROX) IN. RADIUS	CAT WHISKER 5 1/2" COIL	CAT WHISKER 5 1/2" WIRE	CAT WHISKER 7 1/2" WIRE	WOBBLE STICK ROD	WOBBLE STICK CABLE	WOBBLE STICK WIRE
	2	2	4.5	1.0	1.5	4.0
OPERATING FORCE-OZ (MAX)	7.0	5.0	3.0	10.0	7.0	5.0

SWITCH – ENCLOSED
LSA-LSW SERIES CHART 1
CATALOG LISTING
PAGE 8 OF 10

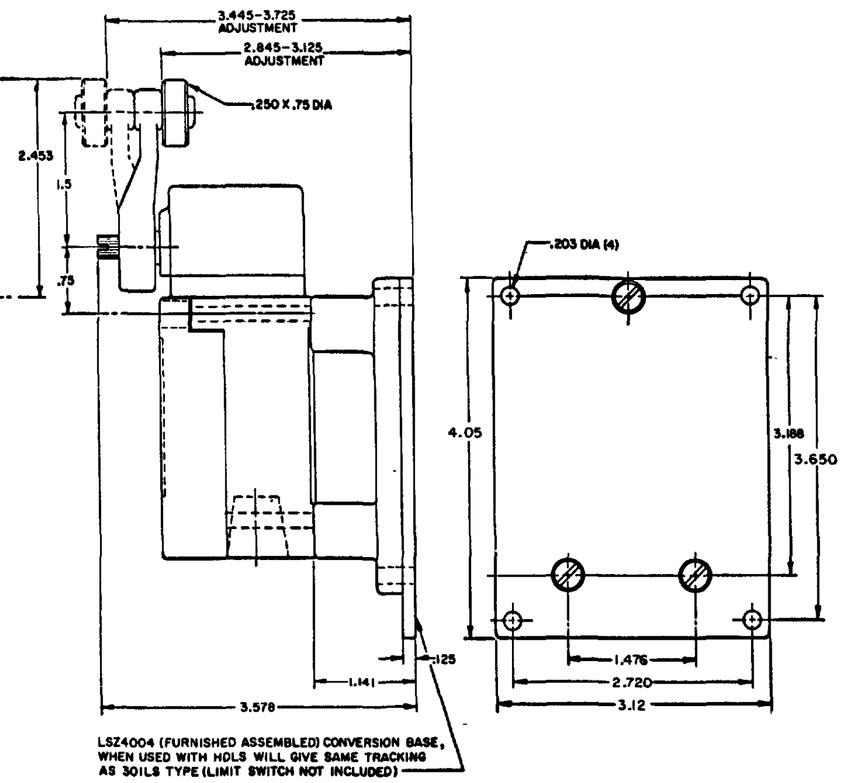
SCALE NONE
DO NOT SCALE PRINT

CONVERSION BASES

SINGLE POLE (SIDE ROTARY) LSZ 4003

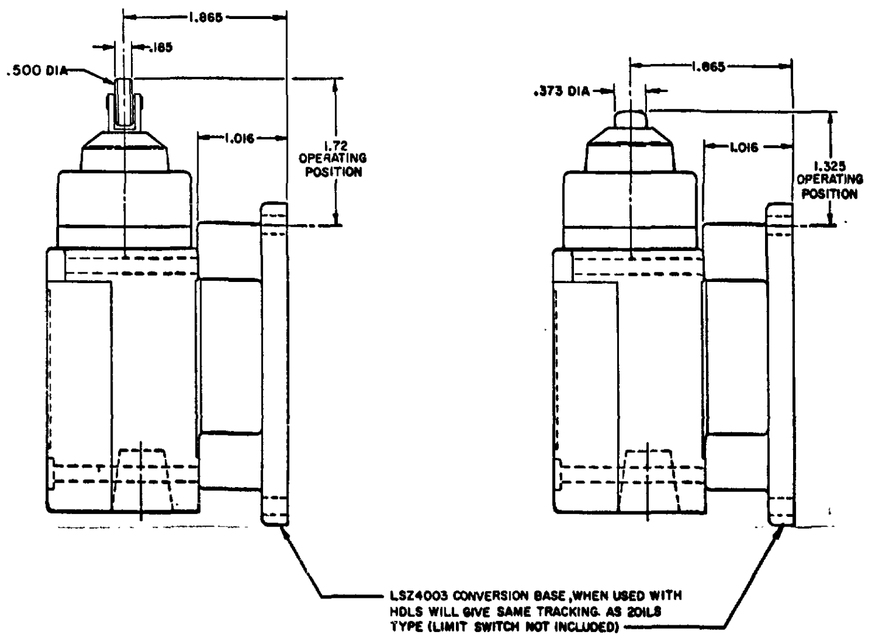


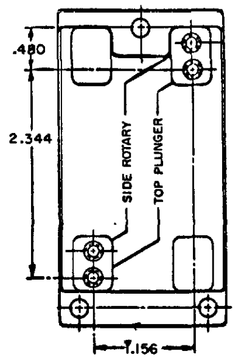
DOUBLE POLE (SIDE ROTARY) LSZ4004



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

MICRO SWITCH a Honeywell Division
FED MFG CODE 81828

SWITCH – ENCLOSED

LSA-LSW SERIES CHART 1

CATALOG LISTING

PAGE 9 OF 10

SCALE FULL DO NOT SCALE PRINT

M LSA-LSW SERIES CHART 1 PAGE 9 OF 10

HEAD TYPE	CELLULUBE	DETERGENT	5 STAR	ASTM #1	ASTM #2	ASTM #3	ASTM #4	HOUGHTO SAFE 271 620	HOUGHTO SAFE 1010, 1055, 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

MICRO SWITCH a Honeywell Division
FED MFG CODE 91929

SWITCH – ENCLOSED

CATALOG LISTING LSA-LSW SERIES CHART 1

SCALE

CATALOG LISTING M LSA-LSW SERIES CHART 1 PAGE 10 OF 10
ISSUE 12
RELEASE NO CO-78498 REPLACES LSA-LSW SERIES
10JUL07 PSR CHECK
REVISIONS
L 0031956 BS 10JUL07
B 201004 CSL 10 AUG 00
C 201748 CSL 17 NOV 00
D 202198 CSL 23 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
11AUG04 AK CHECK
11 JUL 94 JAF CHECK
15 JUN 94 MAM DRAWN
RASTER

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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http://moschip.ru/get-element

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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:
moschip.ru
moschip.ru_4
moschip.ru_6
moschip.ru_9