NOTES:

- 1. DRAWING TO BE INTERPRETED IN ACCORDANCE WITH THE CURRENT REVISION OF ASME Y14.5.
- 2. THIS PART/PRODUCT IS TO BE MANUFACTURED WITH THE LATEST APPLICABLE REGULATIONS OF EC DIRECTIVES FOR THE RESTRICTION OF THE USE OF HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (ROHS), WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE) AND REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS (REACH).

TRAVEL POSITION. OPTIONS "AA", "BB", "CC", "DD", "EE", "FF" PROVIDE INCREASED VOLTAGE IN +Y; AND DECREASING VOLTAGE IN -Y DIRECTION FROM ONE OUTPUT PER AXIS.

- OPTIONS "GG" AND "HH" PROVIDE INCREASING VOLTAGES.
- IN ALL DIRECTIONS (+Y, -Y) FROM 2 OUTPUTS PER AXIS. 4. OPTIONS "BB" AND "EE" PROVIDE REDUNDANT OUTPUT 2 WHICH DUPLICATES OUTPUT 1.
- OPTIONS "CC" AND "FF" PROVIDE REDUNDANT OUTPUT 2 WHICH IS INVERSE OF OUTPUT 1.
- 5. SEE PAGE 3 FOR ALTERNATE BUTTON DESIGN. ONLY BUTTON STYLE "2", "5", AND "6" ARE OFFERED WITH

A WATERTIGHT PANEL SEAL 6 MARKING TO INCLUDE:

"OTTO" P/N & DATE CODE "YYWW".

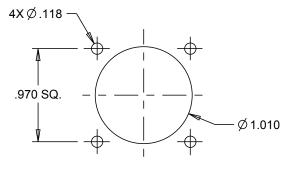
PRODUCT SPECIFICATIONS

ELECTRICAL:					
RATED AT Vcc = 5V @ 20° C LOAD = 1ma (4.7KΩ)	UNITS	MIN	TYP	МАХ	
SUPPLY VOLTAGE, Vcc	VDC	4.50	5.00	5.50	
OUTPUT VOLTAGE TOLERANCE AT CENTER (SEE APPROPRIATE GRAPH FOR OUTPUT VALUES)	VDC @5V Vcc	25	NA	+.25	
OUTPUT VOLTAGE TOLERANCE FULL TRAVEL (SEE APPROPRIATE GRAPH FOR OUTPUT VALUES)	VDC @5V Vcc	25	NA	+.25	
SUPPLY CURRENT PER SENSOR B=0, Vcc=5V, lout=0	ISOR mA		NA	10.0	
OUTPUT SOURCE CURRENT LIMIT B=-X*, Vo=0	mA	-1.00	NA	1.00	
OUPUT RESISTANCE lo < -2 mA	Ω	NA	1.00	10.00	
MECHANICAL:					

MECHANICAL LIFE ALL DIRECTIONS		1,000,000 CYCLES						
TRAVEL ANGLE	DEGREES	23	25	27				
OPERATING FORCE (W/BOOT) AT TOP OF BUTTON, @ 20° C	OZ	NA	16	20				
MAX. ALLOWABLE VERTICAL FORCE ON BUTTON	LBS	NA	NA	25				
MAX. ALLOWABLE RADIAL FORCE ON BUTTON	LBS	NA	NA	25				
MAX. ALLOWABLE TORQUE ON BUTTON ABOUT SHAFT AXIS	IN-LBS	NA	NA	5.5				
ENVIRONMENTAL:								

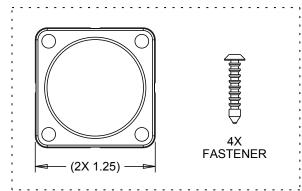
OPERATING TEMPERATURE	°C	-40	20	85			
ELECTRONICS SEAL INTEGRITY	WATERTIGHT	PER IP68S, 1 ME	TER				
EMI/RFI WITHSTAND PER SAE J1113 CONTACT FACTORY FOR DETAILS							
MATERIAL:							
BOOT ELASTOMER, BLACK							
BUTTON THERMOPLASTIC, BLACK							
CASE	THERMOPLAS	TIC, BLACK					
FLANGE	THERMOPLAS	TIC, BLACK					
4X ITW FASTEX PANEL FASTENER							

P/N 36030002, OR EQUIVALENT



HARDWARE

SUGGESTED PANEL OPENING



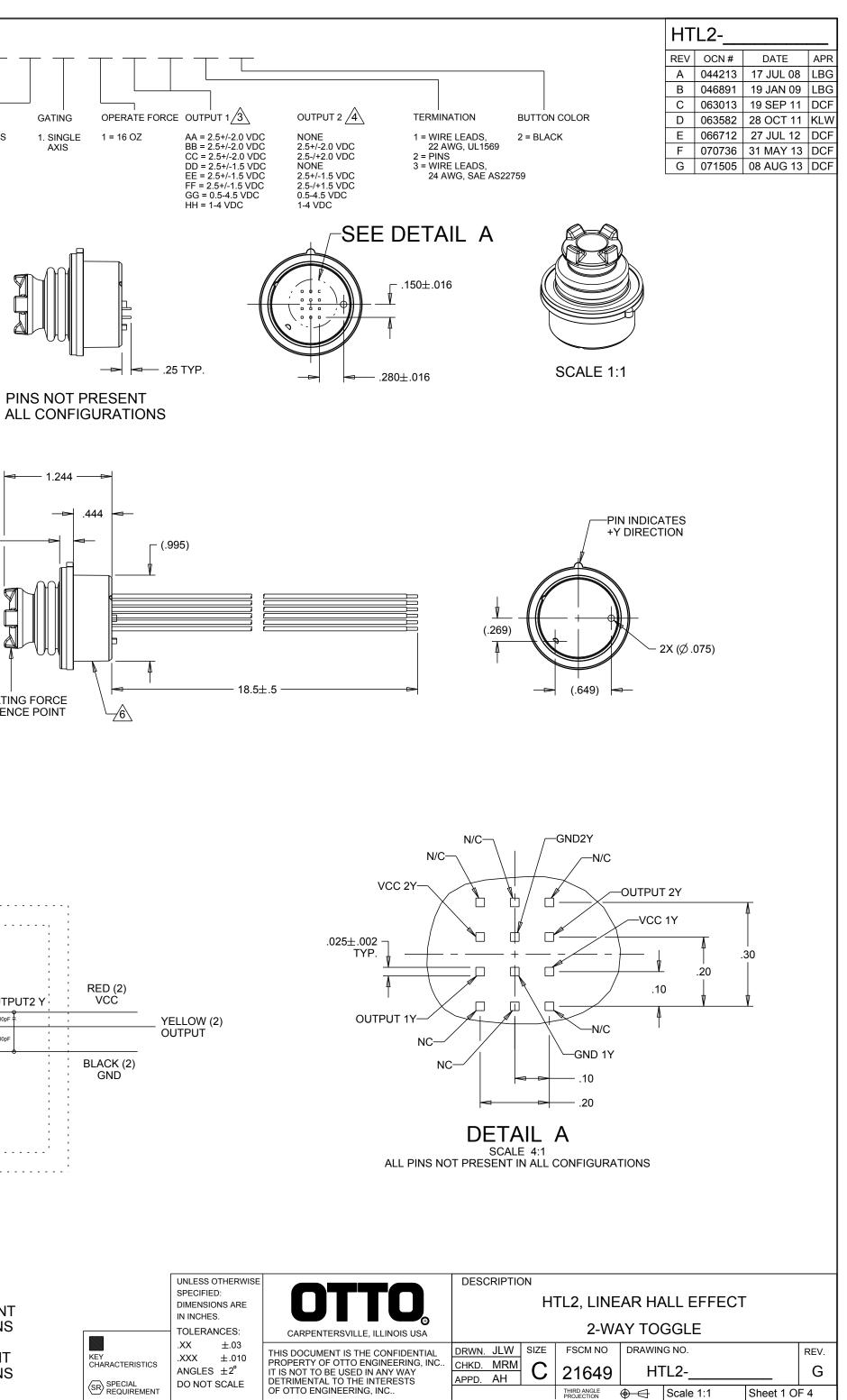
SHIPPED UNASSEMBLED

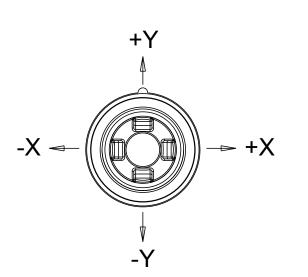
HTL2-5 BUTTON STYLE 5 SEAL CASE STYLE TRAVEL 1 = CASTLE 1 = .970 SQ. 1 = DUSTTIGHT 1 = 25 DEGREES 2 = EXTERNAL CASTLE BOOT 2 = WATERTIGHT AXIS 3 = SHORT DOUBLE STADIUM 4 = TALL CONCAVE STADIUM

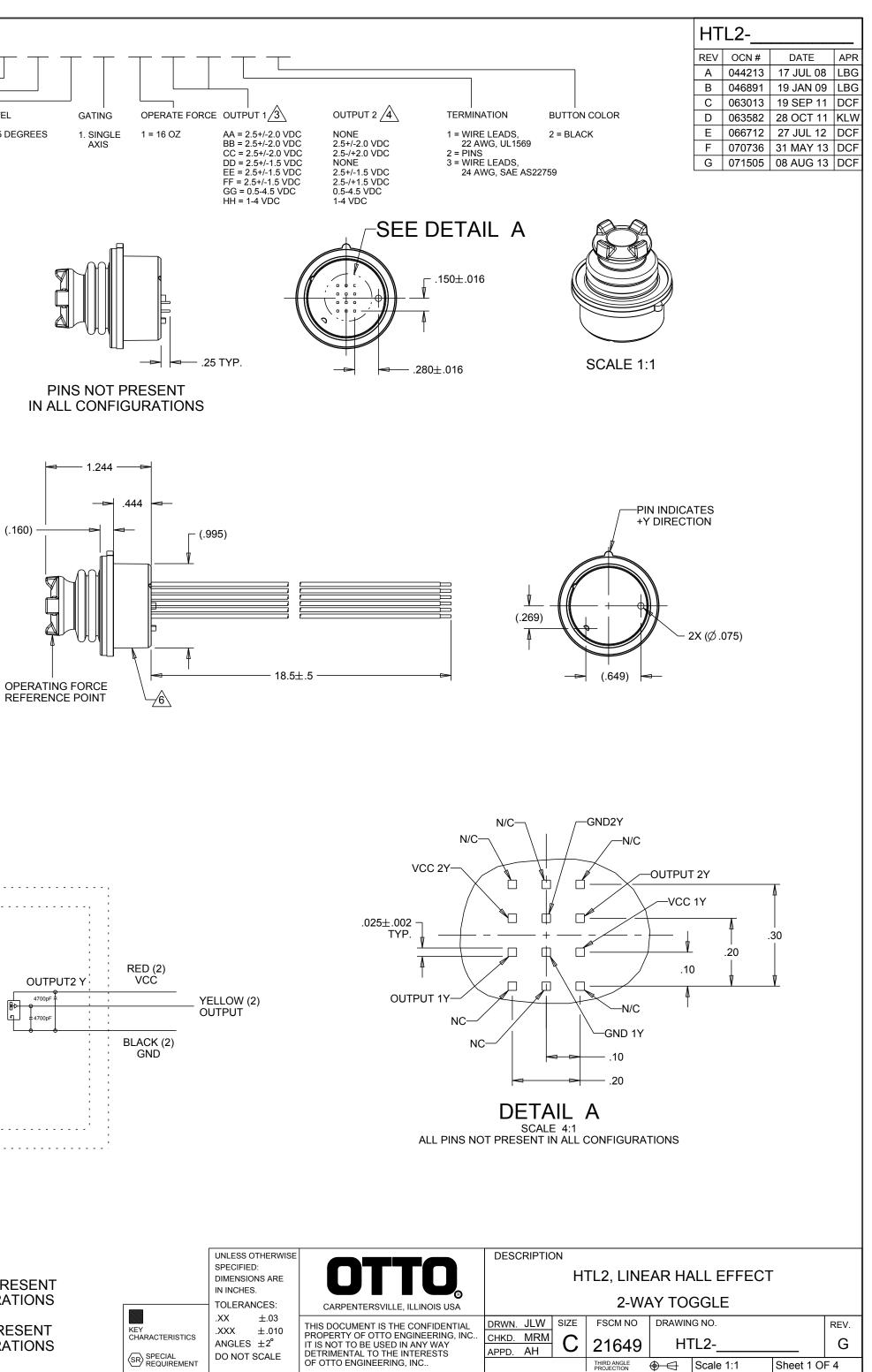
5 = EXTERNAL BAT HANDLE BOOT 6 = EXTERNAL SMOOTH BOOT

G

7 = LONG CONCAVE Y AXIS BUTTON



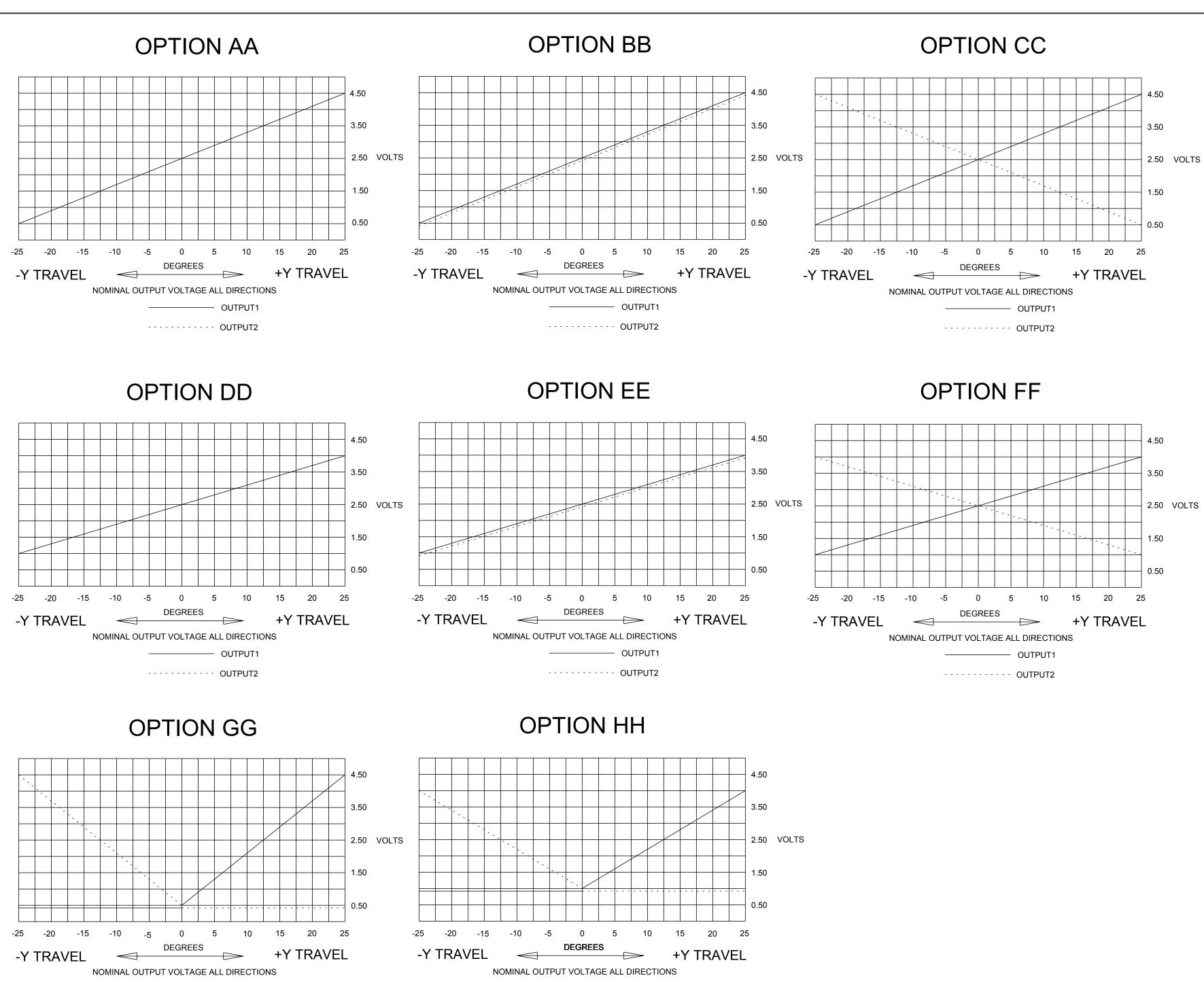




CASE PCB BLACK GND ъ L P YELLOW OUTPUT 4700pF 🚽 OUTPUT1 Y RED VCC

> ALL WIRES NOT PRESENT IN ALL CONFIGURATIONS

OUTPUT2 NOT PRESENT IN ALL CONFIGURATIONS



OUTPUT1 ····· OUTPUT2

·····OUTPUT2

OUTPUT1

UNLESS OTHERWISE SPECI DIMENSIONS ARE IN INCHES TOLERANCES ARE AS LISTE MUST BE FREE FROM BURR AND SHARP EDGES

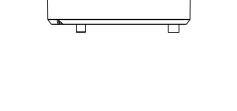
CIFIED	TOLERANCES	THIS DOCUMENT IS THE CONFIDENTIAL	DRWN. JLW	SIZE	FSCM NO	DRAWIN	G NO.		REV.
IES.	.XX ±.03 PROPERTY OF OTTO END .XXX ±.010 IT IS NOT TO BE USED IN	PROPERTY OF OTTO ENGINEERING, INC IT IS NOT TO BE USED IN ANY WAY	CHKD. MRM	C	21649	Н	L2-		G
RRS	ANGLES $\pm 2^{\circ}$ DO NOT SCALE DRAWING	DETRIMENTAL TO THE INTERESTS OF OTTO ENGINEERING, INC	APPD. AH WT.		THIRD ANGLE PROJECTION		Scale 1:1	Sheet 2 C)F 4

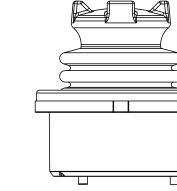


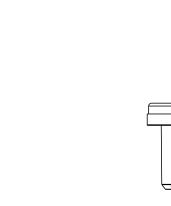
BUTTON STYLE CONFIGURATION

BUTTON STYLE 2 (EXTERNAL CASTLE BOOT)

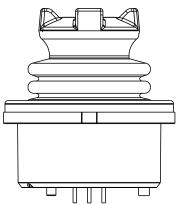






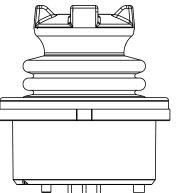


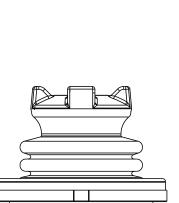




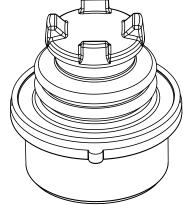
BUTTON STYLE 1

(CASTLE)



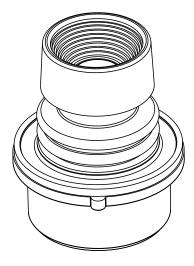


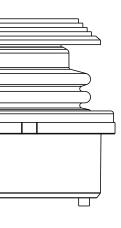


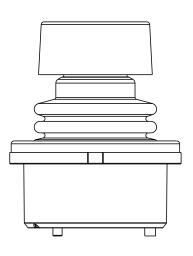








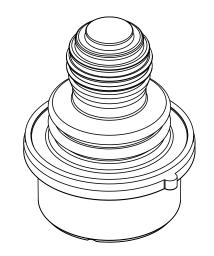


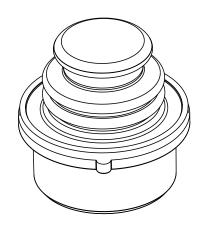


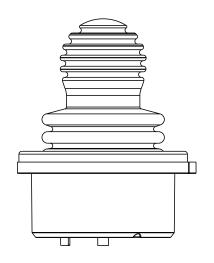
BUTTON STYLE 3 (SHORT DOUBLE STADIUM)

BUTTON STYLE 4 (TALL CONCAVE STADIUM)

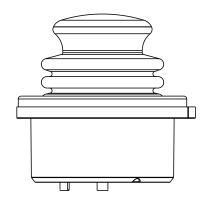
PECIFIED	TOLERANCES	THIS DOCUMENT IS THE CONFIDENTIAL	DRWN.	JLW	SIZE	FSCM NO	DRAWING	G NO.		REV.
CHES. ISTED. URRS	.XX ±.03 .XXX ±.010		CHKD. APPD.	DCF AH	С	21649	н	⁻ L2		G
		OF OTTO ENGINEERING, INC	WT.			THIRD ANGLE PROJECTION	1	Scale 1:1	Sheet 3 O	- 4





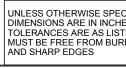


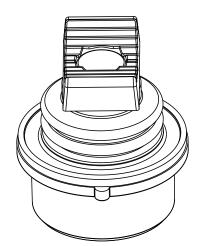
BUTTON STYLE 5 (EXTERNAL BAT HANDLE BOOT)

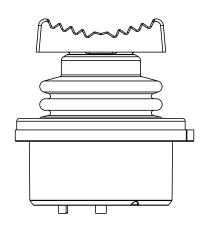


BUTTON STYLE 6 (EXTERNAL SMOOTH BOOT)

BUTTON STYLE CONFIGURATION







BUTTON STYLE 7 (LONG CONCAVE Y AXIS BUTTON)

PECIFIED TOLERANCES THIS	THIS DOCUMENT IS THE CONFIDENTIAL	DRWN.	JLW	SIZE	FSCM NO	DRAWING	G NO.		REV.	
CHES. ISTED. JURRS	$.XX \pm .03$ $.XXX \pm .010$ ANGLES $\pm 2^{\circ}$	PROPERTY OF OTTO ENGINEERING, INC	CHKD. APPD.	DCF AH	С	21649	н	L2		G
	DO NOT SCALE DRAWING	OF OTTO ENGINEERING, INC	WT.			THIRD ANGLE PROJECTION		Scale 1:1	Sheet 4 O	- 4

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