

NOTES:

- DRAWING TO BE INTERPRETED IN ACCORDANCE WITH THE CURRENT REVISION OF ASME Y14.5.
- 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).
- OUTPUTS ARE FROM THE CENTER TO THE FULL 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.
- 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.
- SEE PAGE 3 FOR ALTERNATE BUTTON DESIGN. ONLY BUTTON STYLE "2", "5", AND "6" ARE OFFERED WITH A WATERTIGHT PANEL SEAL.
- MARKING TO INCLUDE: "OTTO" P/N & DATE CODE "YYWW".

HTL2-

HTL2-

REV	OCN #	DATE	APR
A	044213	17 JUL 08	LBG
B	046891	19 JAN 09	LBG
C	063013	19 SEP 11	DCF
D	063582	28 OCT 11	KLW
E	066712	27 JUL 12	DCF
F	070736	31 MAY 13	DCF
G	071505	08 AUG 13	DCF

- 5** BUTTON STYLE
 1 = CASTLE
 2 = EXTERNAL CASTLE BOOT
 3 = SHORT DOUBLE STADIUM
 4 = TALL CONCAVE STADIUM
 5 = EXTERNAL BAT HANDLE BOOT
 6 = EXTERNAL SMOOTH BOOT
 7 = LONG CONCAVE Y AXIS BUTTON
- CASE STYLE**
 1 = .970 SQ.
- 5** SEAL
 1 = DUSTTIGHT
 2 = WATERTIGHT
- TRAVEL**
 1 = 25 DEGREES
- GATING**
 1. SINGLE AXIS
- OPERATE FORCE**
 1 = 16 OZ
- OUTPUT 1** **3**
 AA = 2.5+/-2.0 VDC
 BB = 2.5+/-2.0 VDC
 CC = 2.5+/-2.0 VDC
 DD = 2.5+/-1.5 VDC
 EE = 2.5+/-1.5 VDC
 FF = 2.5+/-1.5 VDC
 GG = 0.5-4.5 VDC
 HH = 1-4 VDC
- OUTPUT 2** **4**
 NONE
 2.5+/-2.0 VDC
 2.5+/-2.0 VDC
 NONE
 2.5+/-1.5 VDC
 2.5+/-1.5 VDC
 0.5-4.5 VDC
 1-4 VDC
- TERMINATION**
 1 = WIRE LEADS, 22 AWG, UL1569
 2 = PINS
 3 = WIRE LEADS, 24 AWG, SAE AS22759
- BUTTON COLOR**
 2 = BLACK

PRODUCT SPECIFICATIONS

ELECTRICAL:

RATED AT V _{cc} = 5V @ 20°C LOAD = 1ma (4.7KΩ)	UNITS	MIN	TYP	MAX
SUPPLY VOLTAGE, V _{cc}	VDC	4.50	5.00	5.50
OUTPUT VOLTAGE TOLERANCE AT CENTER (SEE APPROPRIATE GRAPH FOR OUTPUT VALUES)	VDC @5V V _{cc}	-.25	NA	+.25
OUTPUT VOLTAGE TOLERANCE FULL TRAVEL (SEE APPROPRIATE GRAPH FOR OUTPUT VALUES)	VDC @5V V _{cc}	-.25	NA	+.25
SUPPLY CURRENT PER SENSOR B=0, V _{cc} =5V, I _{out} =0	mA	NA	NA	10.0
OUTPUT SOURCE CURRENT LIMIT B=X*, V _o =0	mA	-1.00	NA	1.00
OUTPUT RESISTANCE I _o < -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 METER			
EMI/RFI WITHSTAND	PER SAE J1113 CONTACT FACTORY FOR DETAILS			

MATERIAL:

BOOT	ELASTOMER, BLACK
BUTTON	THERMOPLASTIC, BLACK
CASE	THERMOPLASTIC, BLACK
FLANGE	THERMOPLASTIC, BLACK
HARDWARE	4X ITW FASTEX PANEL FASTENER P/N 36030002, OR EQUIVALENT



PINS NOT PRESENT IN ALL CONFIGURATIONS



DETAIL A

SCALE 4:1
ALL PINS NOT PRESENT IN ALL CONFIGURATIONS



SHIPPED UNASSEMBLED

ALL WIRES NOT PRESENT IN ALL CONFIGURATIONS

OUTPUT2 NOT PRESENT IN ALL CONFIGURATIONS

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES: .XX ±.03, .XXX ±.010, ANGLES ±2°, DO NOT SCALE

KEY CHARACTERISTICS SPECIAL REQUIREMENT

OTTO
CARPENTERSVILLE, ILLINOIS USA

DESCRIPTION
HTL2, LINEAR HALL EFFECT
2-WAY TOGGLE

DRWN. JLW	SIZE C	FSCM NO 21649	DRAWING NO. HTL2-	REV. G
CHKD. MRM				
APPD. AH				

OPTION AA

OPTION BB

OPTION CC



OPTION DD

OPTION EE

OPTION FF



OPTION GG

OPTION HH

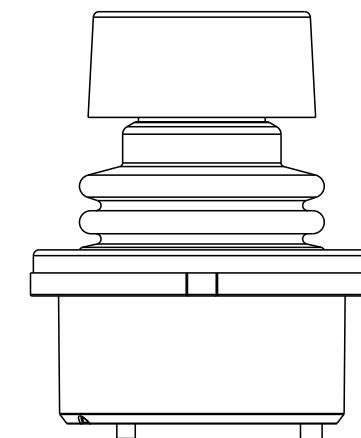
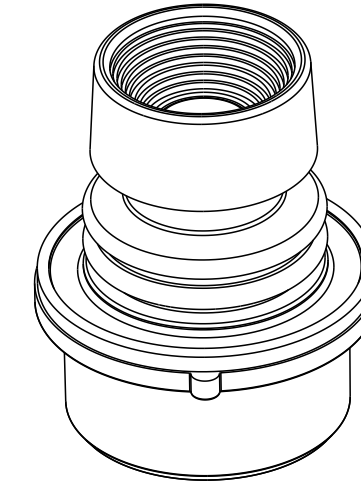


UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.
TOLERANCES ARE AS LISTED.
MUST BE FREE FROM BURRS
AND SHARP EDGES

TOLERANCES
.XX ±.03
.XXX ±.010
ANGLES ±2°
DO NOT SCALE DRAWING

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DRWN. JLW	SIZE C	FSCM NO. 21649	DRAWING NO. HTL2-	REV. G
CHKD. MRM				
APPD. AH				
WT.	THIRD ANGLE PROJECTION	Scale 1:1	Sheet 2 OF 4	



BUTTON STYLE 1
(CASTLE)

BUTTON STYLE 2
(EXTERNAL CASTLE BOOT)

BUTTON STYLE 3
(SHORT DOUBLE STADIUM)

BUTTON STYLE 4
(TALL CONCAVE STADIUM)

BUTTON STYLE CONFIGURATION

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DIMENSIONS ARE IN INCHES.
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TOLERANCES
.XX ±.03
.XXX ±.010
ANGLES ±2°
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DRWN. JLW
CHKD. DCF
APPD. AH
WT.

SIZE
C

FSCM NO
21649

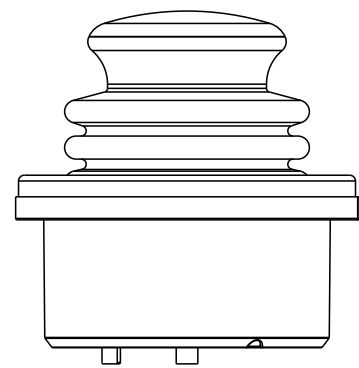
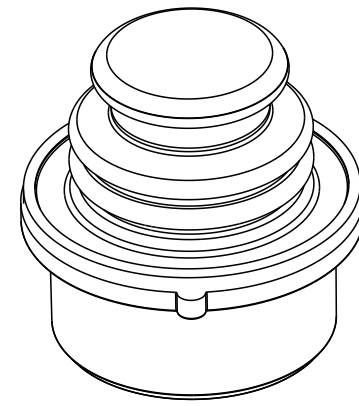
DRAWING NO.
HTL2-_____

REV.
G

THIRD ANGLE
PROJECTION

Scale 1:1

Sheet 3 OF 4



BUTTON STYLE 5
(EXTERNAL BAT
HANDLE BOOT)

BUTTON STYLE 6
(EXTERNAL SMOOTH BOOT)

BUTTON STYLE 7
(LONG CONCAVE Y AXIS BUTTON)

BUTTON STYLE CONFIGURATION

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DIMENSIONS ARE IN INCHES.
TOLERANCES ARE AS LISTED.
MUST BE FREE FROM BURRS
AND SHARP EDGES

TOLERANCES
.XX ±.03
.XXX ±.010
ANGLES ±2°
DO NOT SCALE DRAWING

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DRWN. JLW	SIZE	FSCM NO	DRAWING NO.	REV.
CHKD. DCF	C	21649	HTL2-	G
APPD. AH				
WT.	THIRD ANGLE PROJECTION	Scale 1:1	Sheet 4 OF 4	



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

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