

PROPORTIONAL OUTPUT THUMBWHEEL



Paddle Wheel



Knurled Wheel

OTTO's HTWE control is a spring return to end, single axis, proportional output thumbwheel. Utilizing non-contact Hall effect technology, the HTWE delivers one million actuations. It also has excellent EMI/RFI shielding per MIL-STD-461D/SAE J1113-22. Configuration options include choice of six linear outputs. The HTWE is available as an individual control ideal for panel mountings, or may be incorporated into one of OTTO's joysticks.

Features:

- Spring-return-to-end single axis actuator
- Knurled & Paddle style actuators
- Wire or pinned termination options
- Variety of button & bezel colors
- 8 output options
- Rocker switch style mounting
- Snaps into 1.47" x 0.710" panel opening
- 1 million cycle rotational life
- Electronics sealed to IP68S
- Excellent EMI/RFI immunity
- RoHS/WEEE/Reach compliant

Standard Characteristics/Ratings:

MECHANICAL:

Mechanical Life: 1,000,000 full forward to full back

Max Allowable Radial Load: 30.0 lbs.

ELECTRICAL RATINGS: Rated 5V @ 25°C Load = 1mA (4.7KΩ)

Electrical	Units	Min	Typ	Max
Supply Voltage	VDC	4.5	5.0	5.5
Output at Rest	VDC @ 5V Vcc	-.25	N/A	+.25
Output at Full Travel	VDC @ 5V Vcc	-.25	N/A	+.25
Supply Current Per Sensor	mA	N/A	N/A	10

ELECTRONICS:

Seal Integrity: Electronics IP68S

ENVIRONMENTAL:

Operating Temp Range: -40°C to +85°C

Humidity: 96% RH, 70°C, 96 hours

Vibration: Per MIL-810F minimum integrity

Sand/Dust: Per SAE J1455

EMI: Withstand per MIL-STD-461D/SAE J1113-22

RFI: Withstand 100V/M 14Hz to 1GHz

MATERIALS:

Button: Thermoplastic

Bezel: Thermoplastic

Snap Arms: Stainless steel

Wires: 18 AWG

HTWE RETURN TO END STANDARD THUMBWHEEL

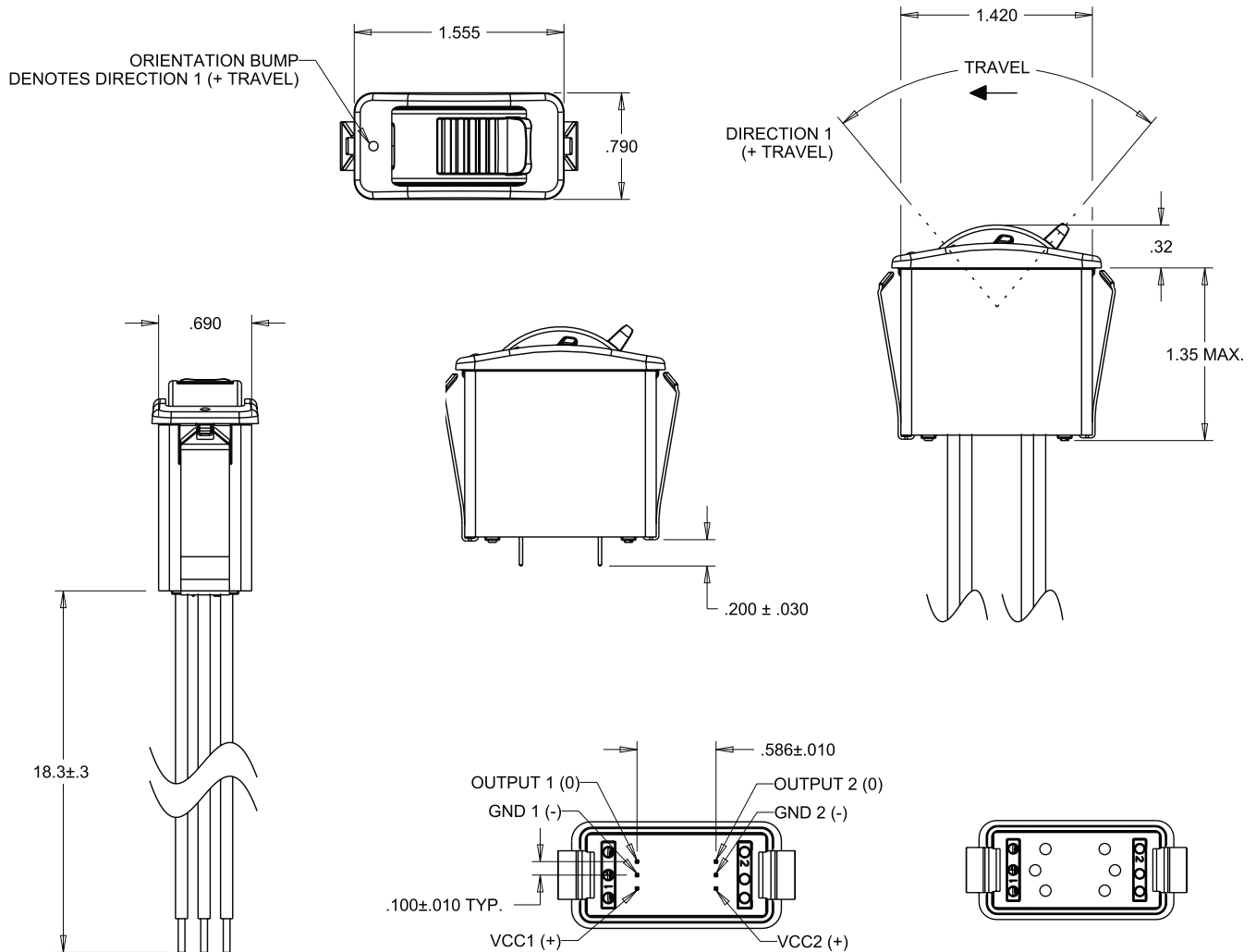
HTWE	-	X	X*	X	X	X	X	X
Travel								
1. 80°								
2. 60°								
Output 1								
A. 0.5 - 4.5VDC								
B. 0.5 - 4.5VDC								
C. 0.5 - 4.5VDC								
D. 1.0 - 4.0VDC								
E. 1.0 - 4.0VDC								
F. 1.0 - 4.0VDC								
Output 2								
NONE								
0.5 - 4.5VDC								
4.5 - 0.5VDC								
NONE								
1.0 - 4.0VDC								
1.0 - 4.0VDC								
4.0 - 1.0VDC								
Operating Force								
1. 10 oz typ								
Button Style								
1. Knurled Wheel								
2. Paddle Wheel								
Termination								
A. 18 AWG Wires, 18.3" Long, Stripped Ends								
B. 0.025" SQ. Pins								
Bezel Color								
1. Red								
2. Black								
3. Orange								
4. Yellow								
5. Green								
6. Blue								
7. Violet								
8. Gray								
9. White								
Button Color								
1. Red								
2. Black								
3. Orange								
4. Yellow								
5. Green								
6. Blue								
7. Violet								
8. Gray								
9. White								

* Output options B and E provide redundant output 2 which duplicates output 1. Output options C and F provide redundant output 2 which is inverse output 1.

RETURN TO END STANDARD THUMBWHEEL

HTWE
HALL EFFECT
THUMBWHEEL

PROPORTIONAL OUTPUT THUMBWHEEL



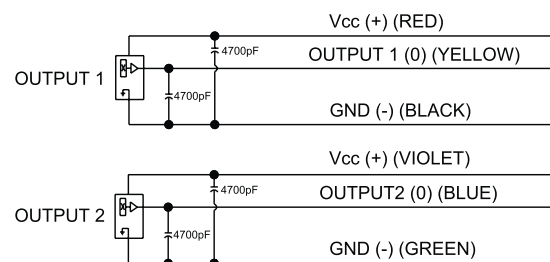
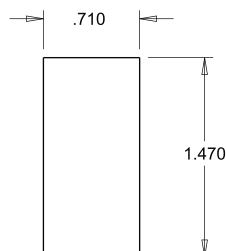
PINNED TERMINATION

NOT ALL PINS ARE PRESENT
IN ALL OUTPUT CONFIGURATIONS

MOUNTING:

RECOMMENDED PANEL THICKNESS: 0.100 OPTIMUM THICKNESS
(0.050 MIN. - 0.120 MAX.)

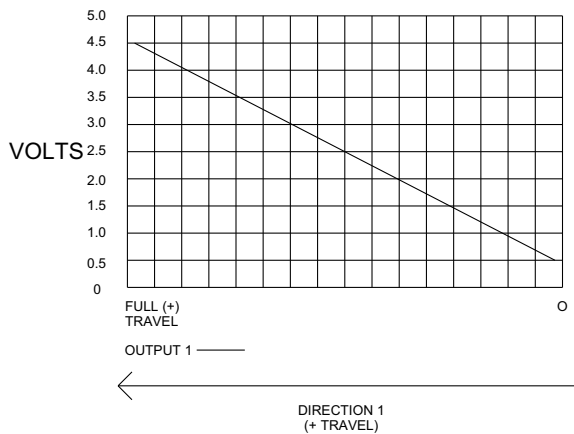
RECOMMENDED PANEL OPENING: 0.710 X 1.470 OPTIMUM
(0.710/0.720 - 1.460/1.480)



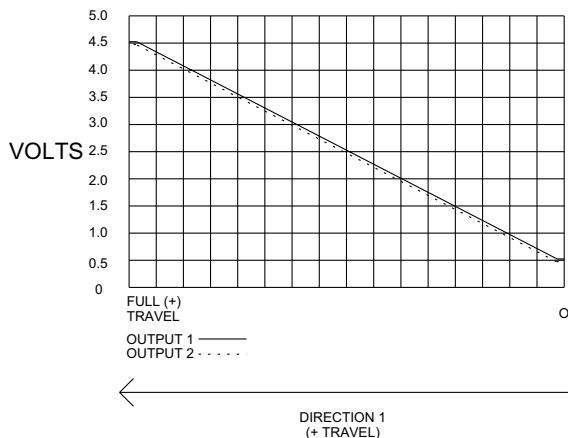
OUTPUT 2 IS NOT PRESENT IN ALL CONFIGURATIONS

PROPORTIONAL OUTPUT THUMBWHEEL

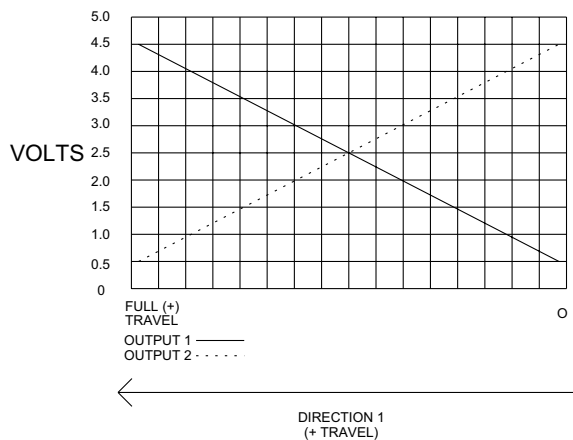
OPTION A



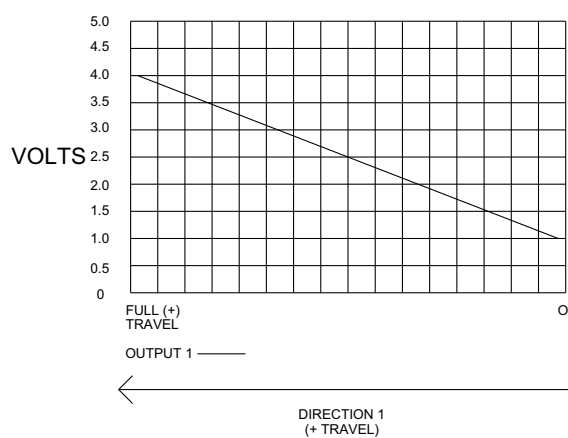
OPTION B



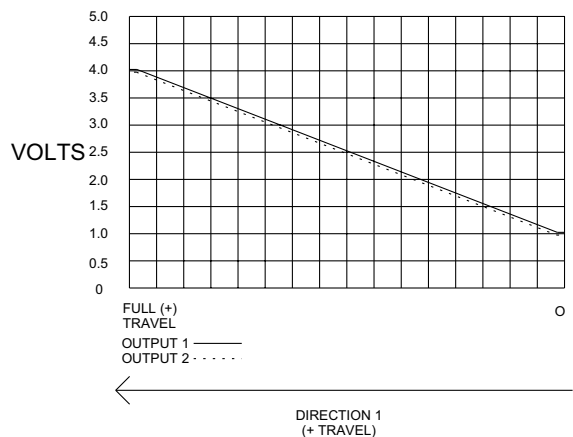
OPTION C



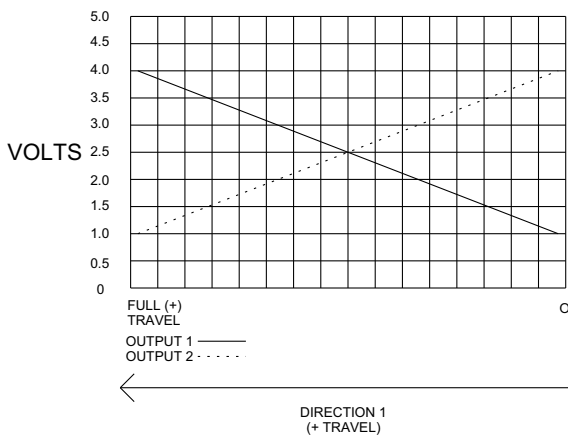
OPTION D



OPTION E



OPTION F



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[OTTO:](#)

[HTWE-1A12A22](#) [HTWE-1A11B22](#) [HTWE-1A11A22](#) [HTWE-1A12B22](#)