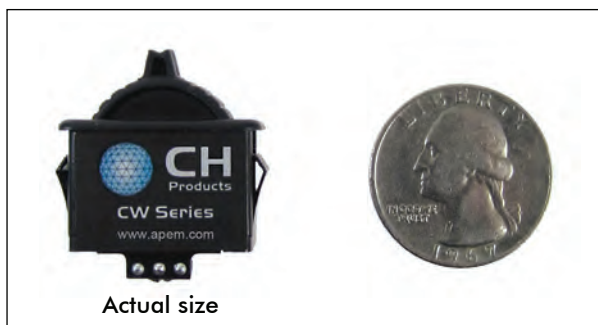




The CW Series is a revolutionary Hall effect control wheel providing proportional control in one miniature axis. A spring return device, the CW is available with your choice of linear output options and wheel colors. Ideal applications include joystick, "gamepad", armrest and panel mount integration.



KEY FEATURES

- ☐ **Miniature design**
- ☐ **Designed for joystick, armrest and panel mounting**
- ☐ **Proportional output**
- ☐ **Self-centering, single-axis actuator**
- ☐ **Snap-in mounting**



CW series

Proportional miniature control wheel

OPTION SELECTION

CW									0
SERIES	TAB SHAPE 0 No Tab 1 Tab 1		MOUNTING 1 Snap-in		OUTPUT OPTIONS 00 0V to 5V 01 0.25V to 4.75V 02 0.5V to 4.5V 03 1V to 4V 99 PWM ¹				
WHEEL SHAPE A Option 1 B Option 1 with tab		WHEEL COLOR RD Red BL Blue BK Black GY Gray		CENTERING OPTION A Standard spring			TERMINATION A 2.54mm (.100") Pitch Male Header		

1 - Contact factory for PWM configuration

SPECIFICATIONS

MECHANICAL

Mechanical Angle of Movement	–	±45°
Expected Life	–	1 million cycles
Mass / weight	–	18.25g ± 5.0g (0.64oz ± 0.18oz)
Lever Action (Centering)	–	Spring centering

ENVIRONMENTAL

Operating Temperature	–	-40°C to +85°C (-40°F to +185°F)
Storage Temperature	–	-40°C to +85°C (-40°F to +185°F)
Sealing	–	IP68
EMC Immunity Level	–	EN61000-4-3
EMC Emissions Level	–	EN61000-6-3:2001
ESD	–	EN61000-4-2

ELECTRICAL

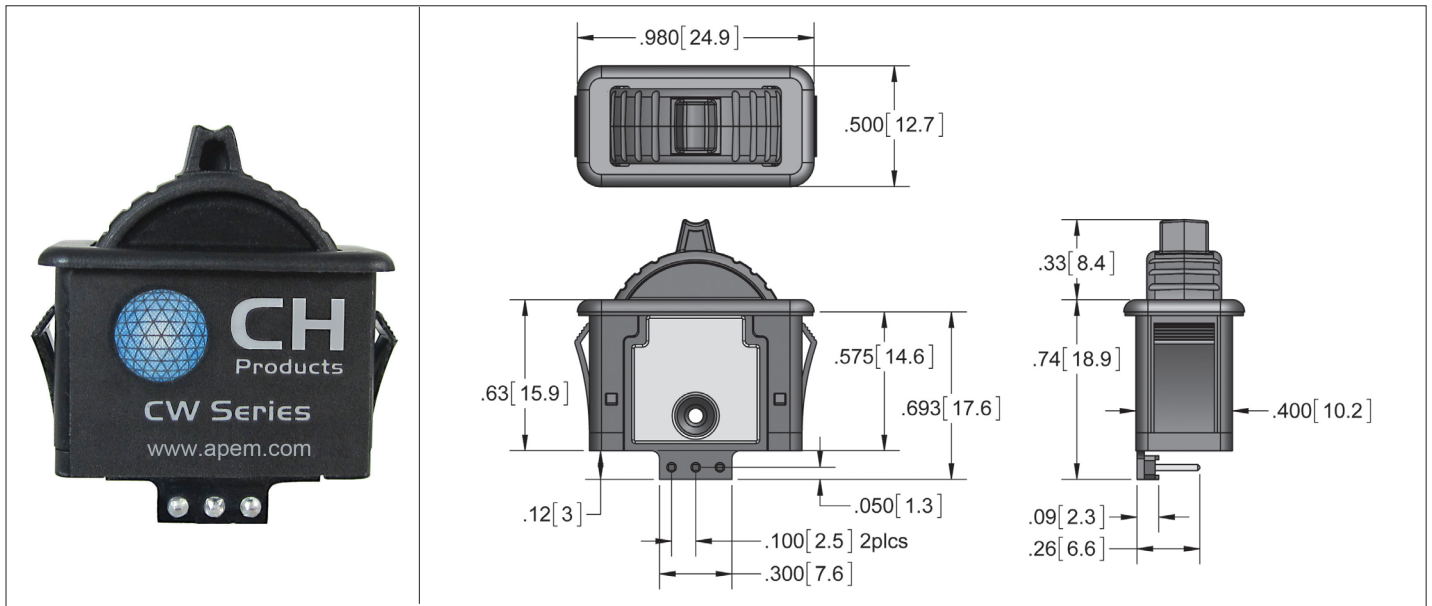
Resolution	–	1.22mV
Supply Voltage Range	–	5.00V ± 0.01V
Reverse Polarity Max	–	-10V
Overvoltage Max	–	20V
Output Impedance	–	2Ω
Return to Center Voltage Tolerance	–	± 200mV initial

Note: The company reserves the right to change specifications without notice.

CW series

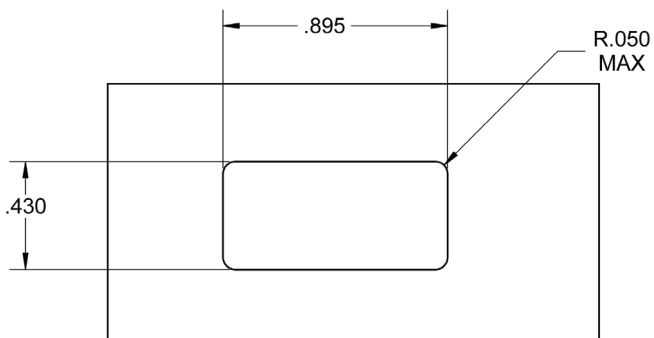
Proportional miniature control wheel

DIMENSIONAL DRAWINGS

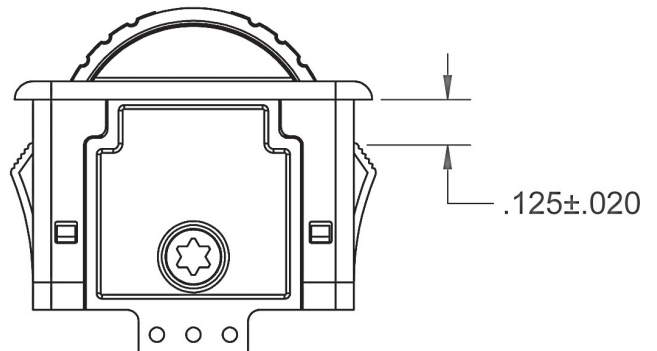


MOUNTING OPTIONS

PANEL CUTOUT



PANEL THICKNESS



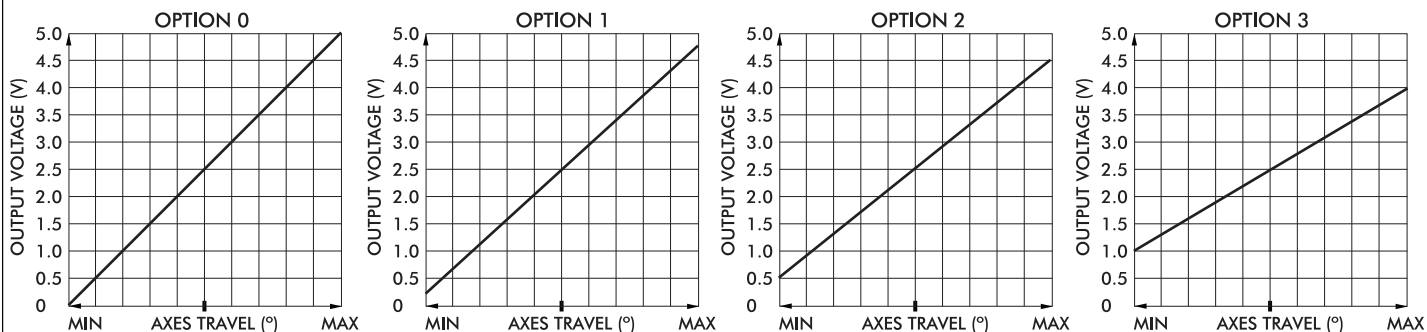
Note: Dimensions are in inches (mm)

CW series

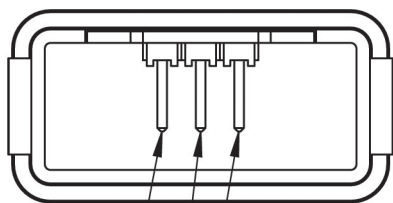
Proportional miniature control wheel

CONFIGURATION OPTIONS

LINEAR OUTPUT OPTIONS



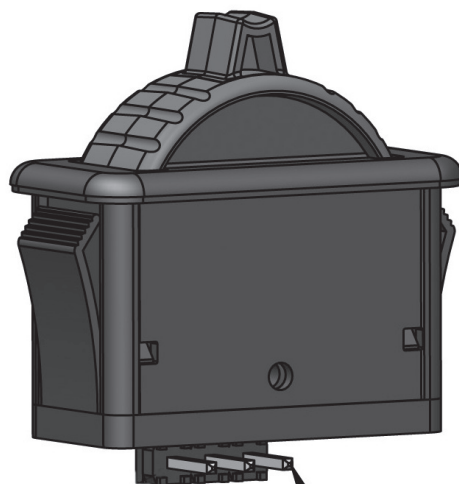
TERMINALS



Pin 1 - 5V power (RED)

Pin 2 - Ground (BLACK)

Pin 3 - Signal (BLUE)



Pin 1

Notes: The company reserves the right to change specifications without notice. The graphs are provided for representational purposes only.