

CW series

Proportional miniature control wheel

Distinctive features and specifications



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

MECHANICAL

- Mechanical Angle of Movement: $\pm 45^\circ$
- Expected Life: 3 million cycles
- Mass / weight: 18.25g $\pm$ 5.0g (0.64oz $\pm$ 0.18oz)
- Lever Action (Centering): Spring centering

ENVIRONMENTAL

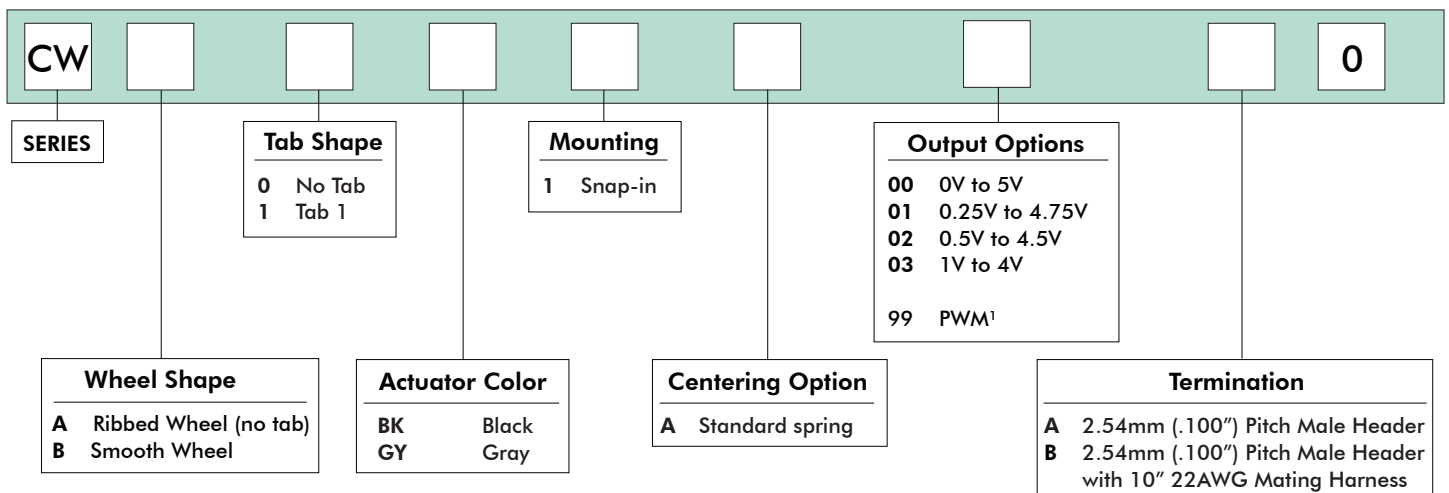
- Operating Temperature: -40°C to $+85^\circ\text{C}$ (-40°F to $+185^\circ\text{F}$)
- Storage Temperature: -40°C to $+85^\circ\text{C}$ (-40°F to $+185^\circ\text{F}$)
- EMC Immunity Level: EN61000-4-3
- EMC Emissions Level: EN61000-6-3:2001
- ESD: EN61000-4-2

ELECTRICAL

- Resolution: 1.22mV
- Supply Voltage Range: 5.00V $\pm$ 0.250VDC
- Reverse Polarity Max: -10V
- Overvoltage Max: 20V
- Output Impedance: 2 Ω
- Return to Center Voltage Tolerance: $\pm$ 200mV initial

NOTES:

Exact specifications are subject to configuration.
All values are nominal.



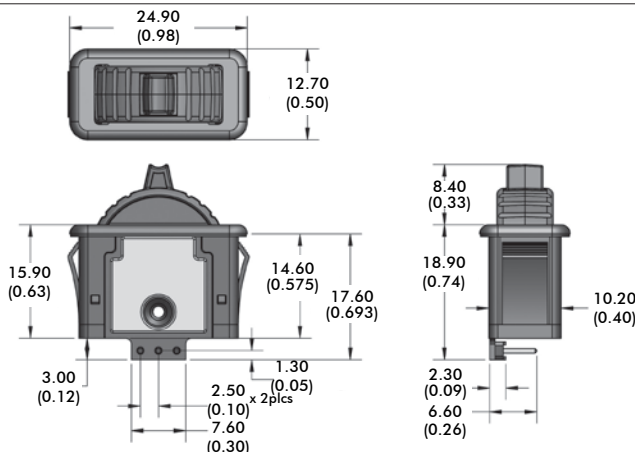
NOTE:

1 - Contact factory for PWM configuration.

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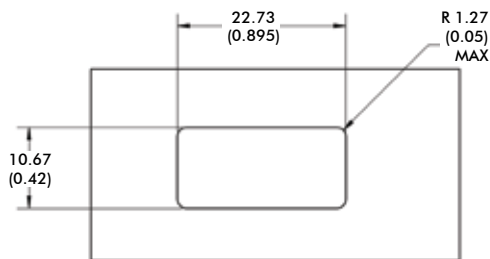
Proportional miniature control wheel

Overview

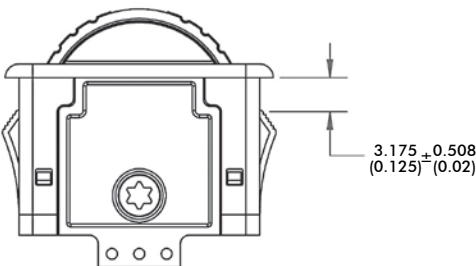


MOUNTING OPTIONS

PANEL CUTOUT

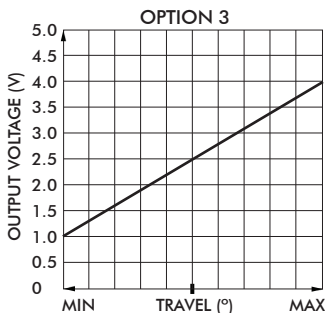
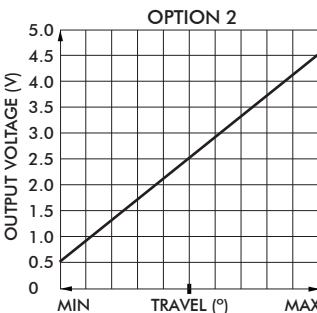
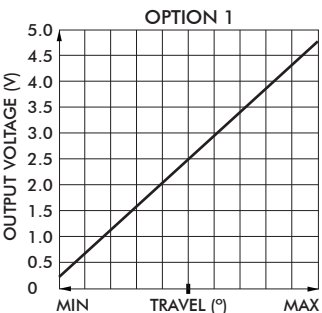
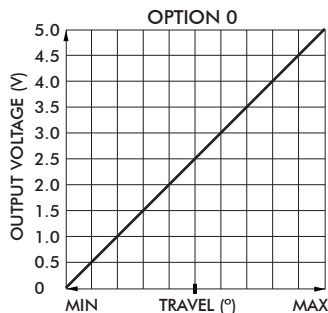


PANEL THICKNESS

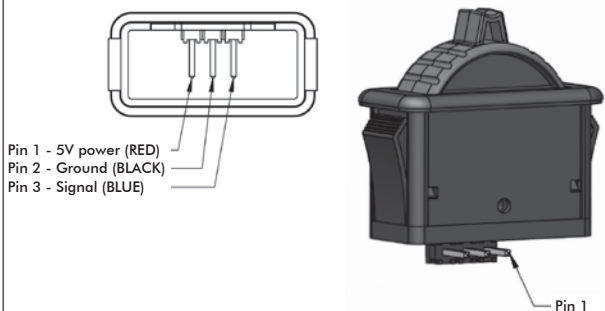


NOTE: Dimensions are in mm/(inch).

VOLTAGE OUTPUT OPTIONS



TERMINALS



OPTIONAL MATING HARNESS¹

- Wire type: 22AWG 25cm PTFE
- Connector: Molex 0050579503

WIRING SPECIFICATION

- Red: Power (5V)
- Black: Ground
- Blue: Signal

NOTES:

1. The CW Series is fitted with a three terminal SAMTEC (TLW-103-05-T-S) 2.54mm header. An optional 22AWG Mating Harness may be specified from the "Terminal" category of the Option Selection Guide.
- Images shown are for illustration purposes only.

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