

# HJ series

Proportional rugged hand grip controllers • non-contacting Hall effect technology



## DISTINCTIVE FEATURES

- Analog output
- CANbus J1939 & CANOpen output options
- Operator presence paddle option
- Several different handle options
- 5 million lifecycles



## ENVIRONMENTAL SPECIFICATIONS

- Operating Temperature: -40°C to +85°
- Storage Temperature: -40°C to +85°C
- Above Panel Sealing: Up to IP67 (subject to final specifications)
- EMC Immunity Level: EN61000-4-8: 2009
- EMC Emissions Level: EN61000-4-3:2006
- ESD: EN61000-4-2:2008



## ELECTRICAL SPECIFICATIONS

- Supply Voltage Range: Analog: 5.00VDC  $\pm$ 0.25VDC, CAN/CANOpen: 6-35VDC
- Reverse Polarity Max: -14.5V
- Overvoltage Max: 16V
- Minimum load: 1  $\Omega$
- Return to Center Voltage Tolerance (no load):  $\pm$ 0.2V



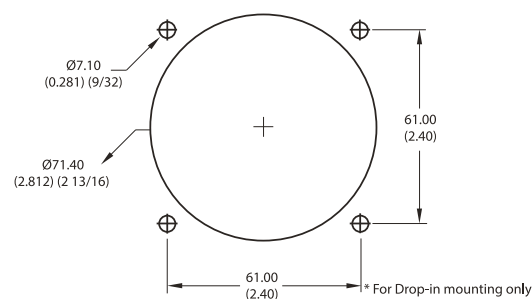
## MECHANICAL SPECIFICATIONS

- Operating Force: 14.0N (3.10lbf)
- Maximum Vertical Load: 2000N (450lbf)
- Maximum Horizontal Load: 2000N (450lbf)
- Mechanical Angle of Movement: 38°
- Expected Mechanical Life: 5 million lifecycles
- Mass/weight: 544.3g (19.2oz)
- Lever Action (centering): Spring

The company reserves the right to change specifications without notice.



## PANEL CUT-OUT



## MATERIALS

- Body: Glass reinforced nylon
- Handles: Glass reinforced nylon

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## BUILD YOUR PART NUMBER

SERIES	AXIS	SPRING	OPERATOR PRESENCE PADDLE	INDEX TRIGGER	CUSTOM
HJ	A 1 B 2 C 3	A Standard B Heavy	Y Yes N No	Y Yes N No G Trigger with guard	E Environmental Sealing up to IP67 (pending specification)

HANDLE	LIMITER PLATE	OUTPUT	FACEPLATE
RM Round Multifunction	S Square R Round P + Limiter X X axis only Y Y axis only G Square, guided feel H Round, guided feel	A 0-5 B 0.25-4.75 C 0.5-4.5 D 1-4 E (0-5) (5-0) F (0.25 - 4.75) (4.75 - 0.25) G (0.5 - 4.5) (4.5 - 0.5) H (1 - 4) (4 - 1) N CANbus J1939 P Canopen U USB Joystick, Game Controller T USB Mouse, Cursor Control X Volt. Reg. 0-10 Y Volt. Reg. +/-10	A Two Pushbuttons B Four Pushbuttons C Five Pushbuttons D Six Pushbuttons E Eight Pushbuttons F Toggle Switch & Two Pushbuttons G Two Pushbuttons & Toggle Switch H Toggle Switch, Thumbwheel, Two Pushbuttons J Two Pushbuttons, Thumbwheel, Toggle Switch K Two Axis Miniature Joystick & Two Pushbuttons L Toggle Switch, Mini Joystick, Two Pushbuttons M Two Toggle Switches N Two Pushbuttons, Mini Joystick, Thumbwheel P Four Pushbuttons, Mini Joystick Q Two Pushbuttons, Mini Joystick, Toggle Switch R Thumbwheel, Mini Joystick, Two Pushbuttons

### NOTES:

- For more details about :
- Thumbwheel : see CW series
  - Mini Joystick : see TS series
  - Toggle switch : see MT series
  - Pushbuttons : see IM series

## DIMENSIONS

