PRO-4 **SINGLE AXIS** JOYSTICK CONTROLLER

PRO-4 - Single Axis Joystick PRO-4H - Hall-effect Joystick PRO-4N – VNSO Contact block PRO-4B/B – Bang / Bang

Construction:

The ultra-rugged PRO-4 provides precise proportional or discrete control for electro-hydraulic valves and AC/DC variable speed drives. Your specific control requirements can be accommodated by a variety of standard and custom engineered configurations.

Also available with Hall-effect or VNSO contact blocks.

The versatile design of the PRO-4 accommodates a variety of handle options including mechanical interlock and lever actuated deadman as well as proportional and discrete outputs including 11A micro-switches, potentiometers, Hall-effect, PWM, CAN Bus, and bang / bang.

Application:

For use on Scissor Lifts, Work Platforms, Bucket Trucks, Cranes, Agricultural, Mining and Forestry equipment.

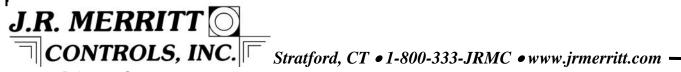
Features:

- Versatile design
- Heavy duty construction
- Long life, compression type return spring system
- 20 Million cycle mechanical operating life
- Rugged 10mm diameter handle shaft
- Tooled fixed cams

Options:

- Multiple mounting systems
- Friction held handle
- Large variety of optional handle configurations including; deadman and mechanical interlock options
- Stepped detents
- Large selection of proportional outputs including potentiometer, Hall-effect, PWM and CAN Bus
- Hall-effect. output meets or exceeds CE EMC Requirements





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PRO-4N ORDERING INFORMATION

Drive Arrangement: Single Axis

Basic Assembly: 3.25" shaft length and boot supplied standard

Handle: 1.25" diameter round ball

Handle Action: Spring Return

Output: Proportional, discrete, stepped

Output Devices: Potentiometer, 16A 300VAC contact block

PRO-4N Technical Data

Mechanical:

Mechanical Life: 20 million cycles

Gear Ratio: 3.5:1

Detented Positions: Up to 5-0-5

Handle Travel: ±36° for proportional $\pm 10^{\circ}$ first step and $\pm 6.5^{\circ}$ every step thereafter for

detented positions

Potentiometer Rotation: ±126°

Environmental:

Operating Temperature: -25 to +70° C

Storage Temperature: -40 to +70° C

Protection above the panel: IP55

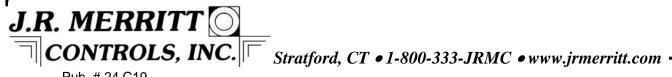
Electrical:

- **Contacts:** 16A, 240 VAC double pole contact block (PRO-4N) (3 max.) with dead front saddle clamp terminals
- Potentiometers: 0.5 watt 5K 3-wire or 4-wire center tap, 5 million Revolutions. Connections: 6 position terminal block with #6 screw terminal

Options:

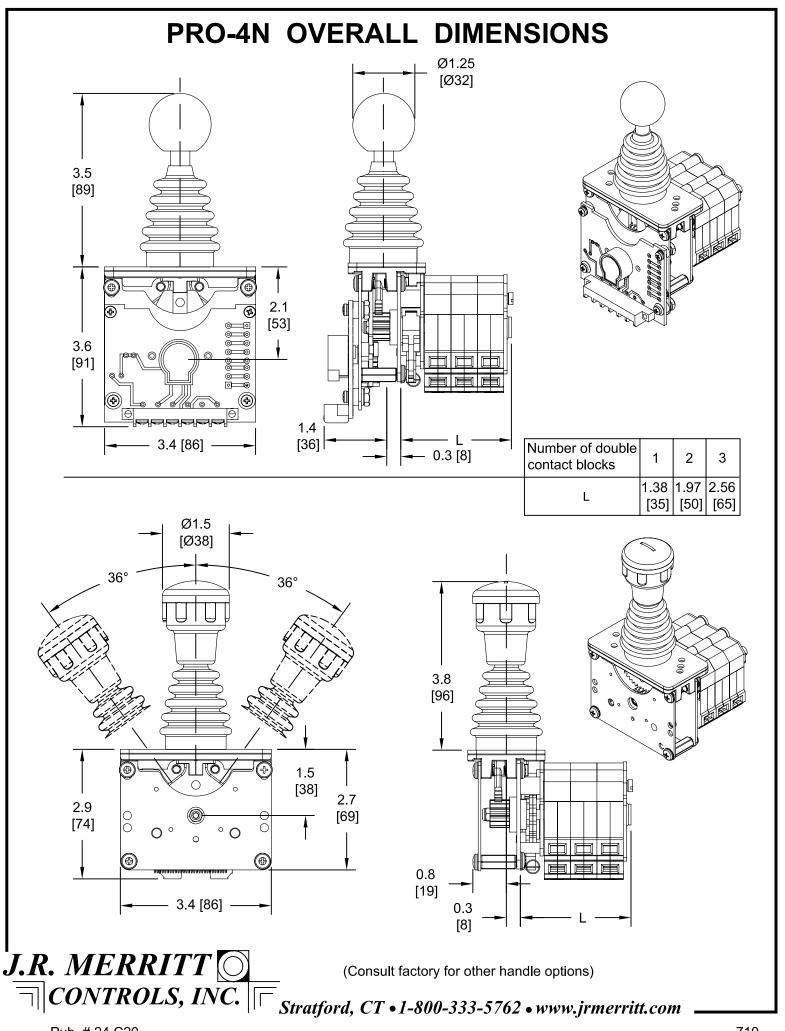
- Handle: See handle section for a selection of handle options
- Handle Action: Friction Brake or Maintained action
- Mounting: See mounting section for a selection of mounting options
- Special Pots: Please consult factory with special potentiometer requirements Connections: 6 position terminal block with #6 screw terminal

Please consult factory for other available options not listed.



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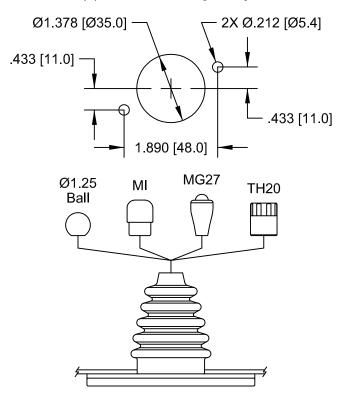


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PRO-4 MOUNTING DIMENSIONS

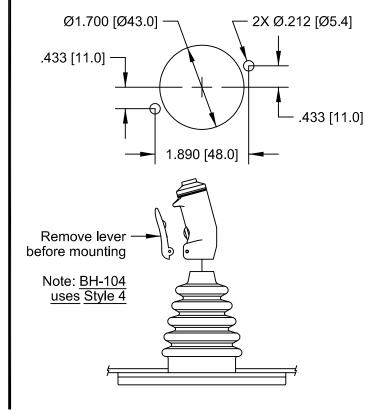
MOUNTING STYLE 1

Standard (3) holes w/Ø1.380 [Ø35.0] center hole



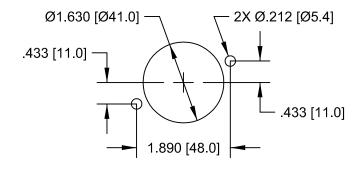
MOUNTING STYLE 3

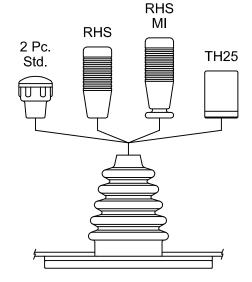
Standard (3) holes w/Ø1.700 [Ø43.0] center hole



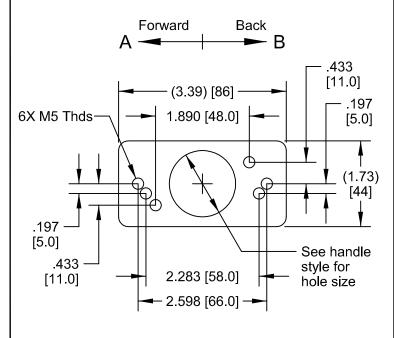
MOUNTING STYLE 2

Standard (3) holes w/Ø1.630 [Ø41.0] center hole





OPTIONAL MOUNTING HOLES



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(Consult factory for other handle options)

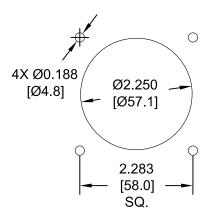
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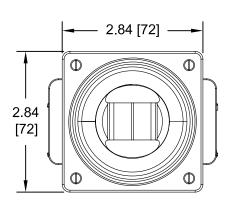
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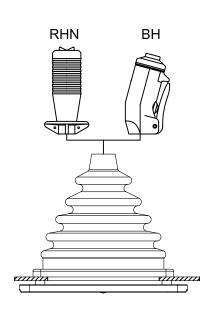
PRO-4 MOUNTING DIMENSIONS

MOUNTING STYLE 4:

5 Holes With 2.25Ø[35] Center Hole



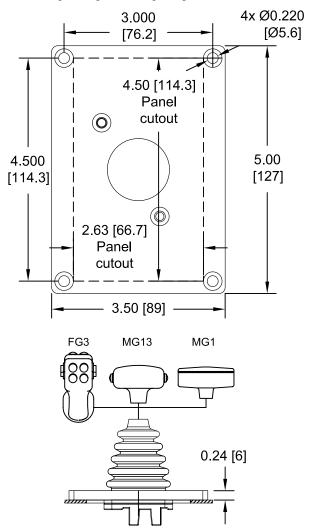




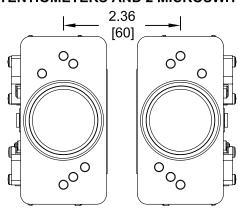
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MOUNTING STYLE 5:

5 Holes With 4.50[114.3] X 2.625[66.7] Center Cut



MINIMUM MOUNTING DIMENSIONS WITH POTENTIOMETERS AND 2 MICROSWITCHES

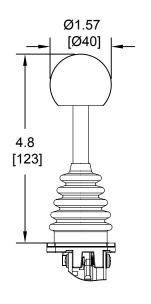


(Consult factory for other handle options)

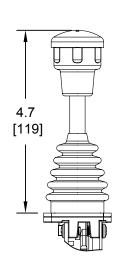
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PRO-4 OVERALL HANDLE OPTION DIMENSIONS

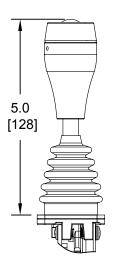
ROUND BALL 1.57 [40]Ø 4.5 [115] SHAFT



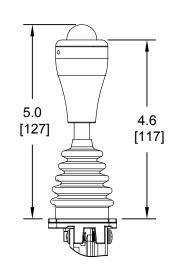
2 PIECE HANDLE 4.5 [115] SHAFT



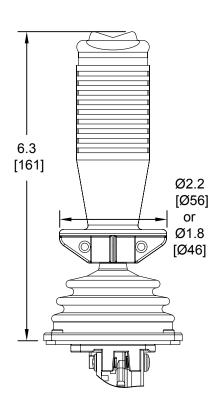
MG27V 4.5 [115] SHAFT



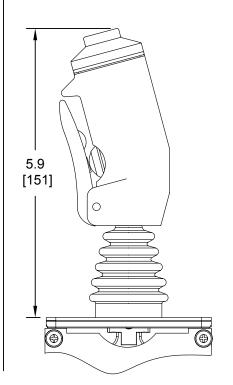
MG27 4.5 [115] SHAFT



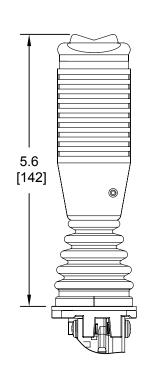
RHN-01 HANDLE 3.7 [95] SHAFT



BH HANDLE 3.3 [85] SHAFT



RHS HANDLE 1.57 [40] Ø BOOT 3.4 [87] SHAFT



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