PRO-5 COMPACT RUGGED CAST DESIGN SINGLE AXIS JOYSTICK CONTROLLER FOR HARSH ENVIRONMENTS

PRO-5 – Single axis cast housing joystick PRO-5H – Single axis cast housing Hall-effect joystick PRO-5B/B – Single axis cast housing bang / bang joystick

Construction:

The cast housing construction of the PRO-5 is suitable for use in wet and dirty environments. The PRO-5 provides precise proportional 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.

The versatile design of the PRO-5 accommodates a variety of handle options including mechanical interlock and lever actuated deadman as well as proportional and discrete outputs including; 11A snap action switches, potentiometers, Halleffect, PWM, CAN Bus, and bang / bang.

Application:

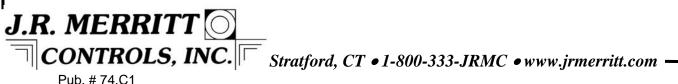
This weatherproof design is ideal for use on scissor lifts, work platforms, bucket trucks, cranes, agricultural, mining and forestry equipment where control of electro-hydraulic proportional valves or variable speed drives is desired.

Features:

- Rugged cast construction •
- Gasketing for outdoor use with blind mounting hardware
- Versatile design •
- 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 (mounting holes are interchangeable with other popular controllers, on request)
- Friction held handle
- Large variety of optional handle configurations including; • deadman and mechanical interlock options
- selection of proportional outputs including Large . potentiometer, Hall-effect, PWM and CAN bus
- Hall-effect output meets or exceeds CE EMC Requirements





PRO-5H HALL-EFFECT ORDERING INFORMATION

Drive Arrangement:Single axis cast housingBasic Assembly:5.25" handle height off of panel and cast housing supplied standardHandle:1.25" diameter round ballHandle Action:Spring ReturnOutput:ProportionalOutput Devices:Hall-effectImmunity:Meets or exceeds CE EMC requirements

PRO-5H Hall-effect Technical

Mechanical:

•	Mechanical Life:	20 million cycles
•	Gear Ratio:	3.5:1

• Handle Travel: ±20°

Environmental:

- Operating Temperature: -25 to +70° C
- Storage Temperature: -40 to +70° C
- Protection above the panel: IP66
- Hall-effect EMC Emissions: Complies with EN61000-6-4:2007 Class A Group 1, 80 – 1000 MHz
- Hall-effect EMC Immunity: Complies with or exceeds EN61000-6-2:2005 expanded to include: RFI Immunity of 100 V/M @ 80 – 1000 MHz ESD Immunity of 15 Kv air, 8 Kv contact

Options:

Electrical:Hall-effect:

• Handle: See handle section for a selection of handle options

Output Voltage: Ratiometric 0.5 – 2.5 – 4.5V

Power Consumption: 20 mA @ full load Connections: 4 position terminal block with #6

• Handle Action: Friction brake

Supply Voltage: 4.5 to 5.5VDC

±0.15V @ 5.0V supply

Output Current: 10 mA

screw terminal

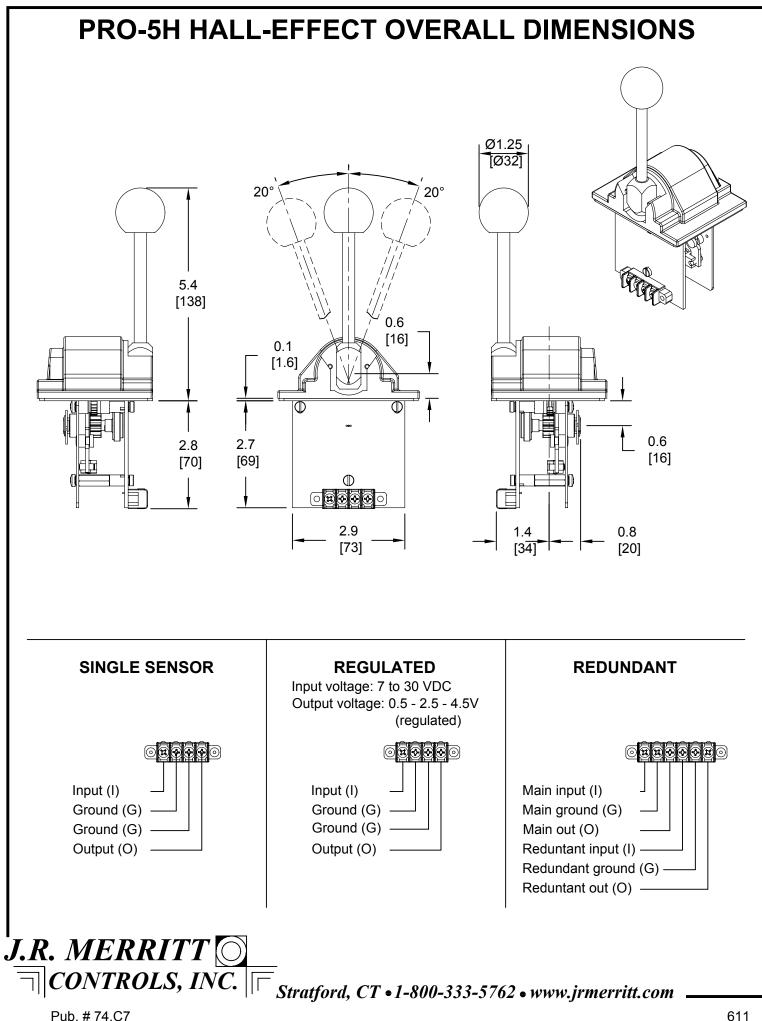
- Mounting: See mounting section for a selection of mounting options
- Hall-effect:

Option 1: Supply Voltage: 7 to 30VDC Output Voltage: $0.5 - 2.5 - 4.5V \pm 0.15V$ Connections: 4 position terminal block with #6 screw terminal **Option 2:** Supply Voltage: 4.5 to 5.5VDC Output Voltage: Redundant - Ratiometric 0.5 - 2.5 $- 4.5V \pm 0.15V$ complementary @ 5.0V supply Connections: 6 position terminal block with #6 screw terminal

• Electronics: CAN bus Connections: Varies with product

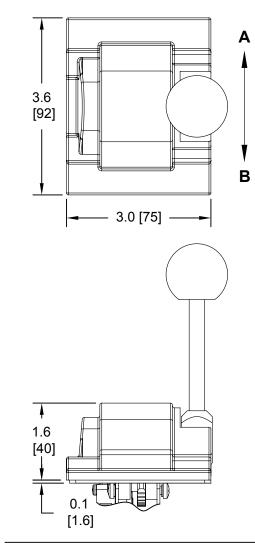
Please consult factory for other available options not listed.

J.R. MERRITT O CONTROLS, INC.
Stratford, CT • 1-800-333-JRMC • www.jrmerritt.com

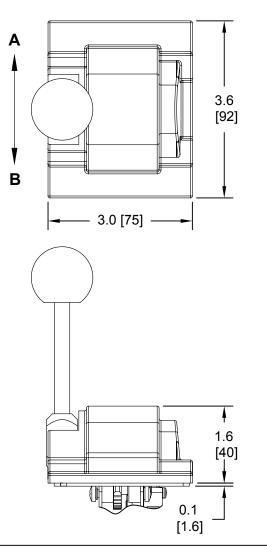


PRO-5 MOUNTING DIMENSIONS

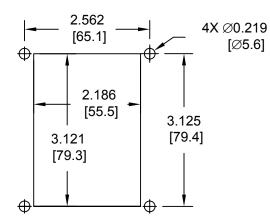
LEFT SIDE MOUNTING



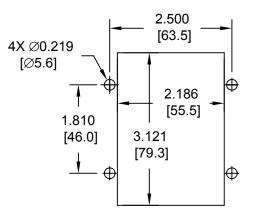
RIGHT SIDE MOUNTING



OPTIONAL PANEL CUT-OUT FOR IP55 PROTECTION ABOVE THE PANEL



STANDARD PANEL CUT-OUT FOR IP66 PROTECTION ABOVE THE PANEL



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