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, Hall-effect, 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
- Large selection of proportional outputs including potentiometer, Hall-effect, PWM and CAN bus
- Hall-effect output meets or exceeds CE EMC Requirements
## PRO-5 ORDERING INFORMATION

**Drive Arrangement:** Single axis cast housing  
**Basic Assembly:** 5.25" handle height off of panel and cast housing supplied standard  
**Handle:** 1.25" diameter round ball  
**Handle Action:** Spring return  
**Output:** Proportional, discrete  
**Output Devices:** Potentiometer, PWM, CAN bus, 11A snap action switch

### PRO-5 Technical Data

#### Mechanical:
- **Mechanical Life:** 20 million cycles  
- **Gear Ratio:** 3.5:1  
- **Detented Positions:** 0° null  
- **Handle Travel:** ±36° for potentiometer  
- **Potentiometer Rotation:** ±126°

#### Environmental:
- **Operating Temperature:** -25 to +70° C  
- **Storage Temperature:** -40 to +70° C  
- **Protection above the panel:** IP66

#### Electrical:
- **Contacts:** 11A 125, 250 VAC Form C V series snap action switch (4 max.) with .187" quick connect tab  
- **Potentiometers:** 0.5 watt 5K 3-wire or 10K 4-wire, 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  
- **Mounting:** See mounting section for a selection of mounting options  
- **Special Pots:** Please consult factory with special potentiometer requirements  
- **Electronics:** PWM amplifiers, pot amplifiers, motor control, CAN bus. Connections: Varies with product

Please consult factory for other available options not listed.
PRO-5 STANDARD OVERALL DIMENSIONS
BALL HANDLE WITH POTENTIOMETER BOARD

MECHANICAL INTERLOCK HANDLE WITH CURRENT OR VOLTAGE PFC BOARD
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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PRO-5 OVERALL HANDLE OPTION DIMENSIONS

2 PIECE HANDLE
4.5 [115] SHAFT

MG27V
4.5 [115] SHAFT

MG27
4.5 [115] SHAFT

RHN-01 HANDLE
3.13 [79] SHAFT

BH HANDLE
3.13 [79] SHAFT

RHS HANDLE
3.13 [79] SHAFT

(Consult factory for other handle options)
See handle section for handle degree of protection