

PRO-6 JOYSTICK

The heavy-duty single axis PRO-6 joystick features smooth, field-adjustable friction brake operation for applications where speed must remain constant under continuous shock and vibration. It's designed for a high mechanical life and offers universal mounting capability. Also available in spring return operation and a variety of output types.



SPECIFICATIONS

GENERAL DATA

| | |
|--------------------------|--|
| # of Axis | Single |
| Output Options | Microswitches, Potentiometer, Hall-Effect, PWM & CAN |
| Joystick Action | Spring Return or Friction Brake |
| Handle Travel | +/- 36 degrees for potentiometer |
| Handle Compatibility | 2 Piece, Round Ball, Mechanical Interlock, RH, RHS, BH, FG-3, FG-4, FG-5, MG1, MG2, MG13, MG27, TH30, G56 |
| Life | 10 million cycles |
| Materials | Features a cast housing and gasketing for outdoor use, as well as plated steel sides, self lubricating bearings, hard nickel chromium spring return arms, compression style return spring and brass gears. |
| Est. Shipping Weight | 3 lbs. |
| Est. Shipping Dimensions | 8 in. x 8 in. x 8 in. |

MOUNTING DATA

| | |
|--------------------|--|
| Mounting Style | Drop-in or Panel (from below) |
| Mounting Footprint | 2.26" x 3.46" See literature for additional mounting specifications |

ENVIRONMENTAL DATA

IP Rating IP54

Operating Temperature -13 to +158 degrees F [-25 to +70 degrees C]

Storage Temperature -40 to +158 degrees F [-40 to +70 degrees C]

ELECTRICAL DATA

Switch Type:
SPDT (Form C) V Series Microswitches

Max. Number:
Up to 4

Contact Specifications
Current Rating (AC):
11A

Voltage Rating (AC):
250

Termination:
.187" x .20" male quick connect

Max. Wire Size:
18 AWG

Supply Voltage:
4.5 to 5.5 VDC

Output Voltage:
Ratiometric 0.5 - 2.5 - 4.5 +/- 0.15V @ 5.0V supply
Additional supply and output options available

Output Current: 10mA

Hall-Effect Specifications Power Consumption: 20 mA @ full load

Termination:
20 AWG wire 6" leads with mini-fit connector

EMC Emissions: Complies with EN61000-6-4:2007 Class A Group 1, 80-1000 MHz

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 15Kv air, 8Kv contact

Can Specifications CANOpen, J1939 or basic CAN protocols

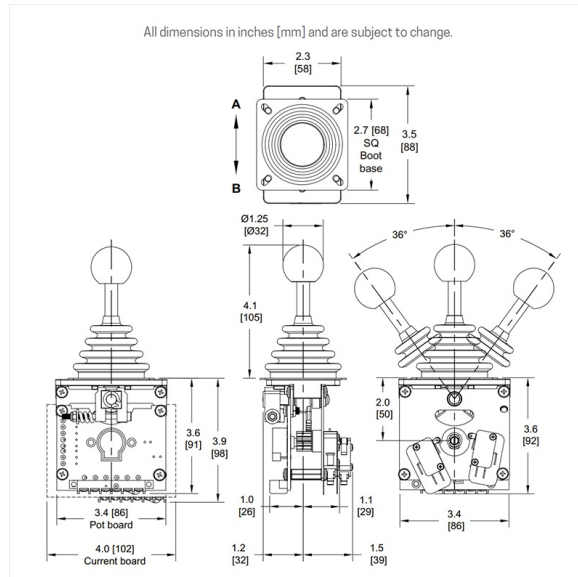
4 analog inputs
8 digital inputs
2 digital outputs

See a complete listing of CANbus technical data in ESS408 CAN Based Interface Module Board literature

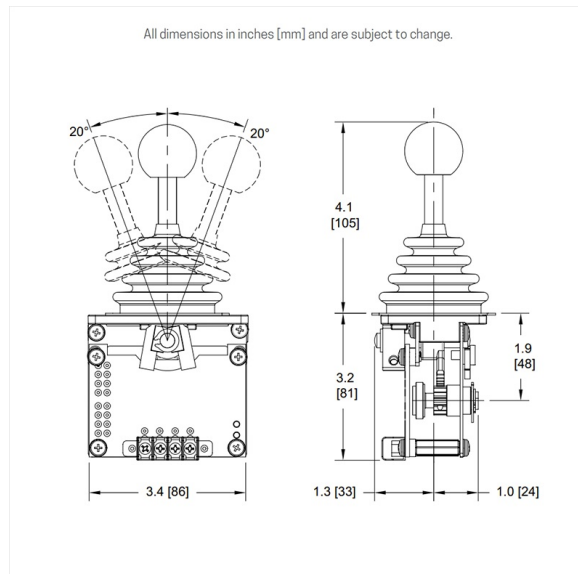
Additional Specifications Reference product literature for additional specifications

Technical Drawings

Dimensional



Standard PRO-6 dimensions. Shown with round ball handle.

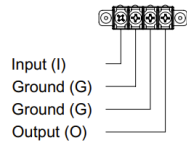


Hall-effect PRO-6 dimensions. Shown with round ball handle.

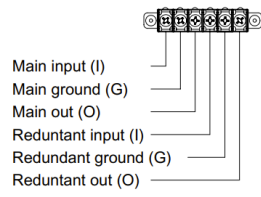
Wiring

All dimensions in inches [mm] and are subject to change.

SINGLE SENSOR



REDUNDANT



Hall-effect wiring details.