# VCS2 JOYSTICK

The compact VCS2 multi-axis joystick sports versatility and reliability for a range of applications. The all plastic Zytel housing and specially treated rugged metal components make this device ideal for use in corrosive environments. Single and dual axis controls are also available, as well as twist handle functions.



# SPECIFICATIONS

## GENERAL DATA

| | |
|---|---|
| # of Axis | Single, Dual or Three*<br>*Third axis is achieved via a twist handle function or thumbwheel. |
| Output Options | Microswitches, Potentiometer & PWM |
| Joystick Action | Spring Return, Friction Brake or Maintained |
| Handle Travel | +/- 37 degrees each axis |
| Gate | Open or Cross |
| Max # of Steps | Up to 3-0-3 |
| Handle Compatibility | Standard Handles, Mechanical Interlock, FG-3, FG-4, FG-5, RH, RHS, BH, MG1, MG2, MG13, MG9 / MG25, MG27, G56 |
| Life | 5 million cycles (spring return)<br>10 million cycles (friction brake) |
| Materials | Glass filled Zytel body, nickel chromium yoke (properties similar to stainless steel) |
| Est. Shipping Weight | 3 lbs. |
| Est. Shipping Dimensions | 8 in. x 8 in. x 8 in. |

## MOUNTING DATA

| | |
|---|---|
| Mounting Style | Panel (from below) |
| Mounting Footprint | 2.84" x 2.84"<br>See literature for additional mounting specifications |

## ENVIRONMENTAL DATA

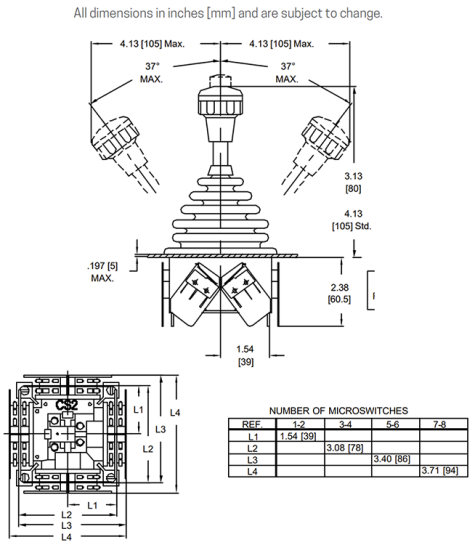
| | |
|---|---|
| IP Rating | IP54 |
| Operating Temperature | -13 to +158 degrees F [-25 to +70 degrees C] |
| Storage Temperature | -40 to +158 degrees F [-40 to +70 degrees C] |

## ELECTRICAL DATA

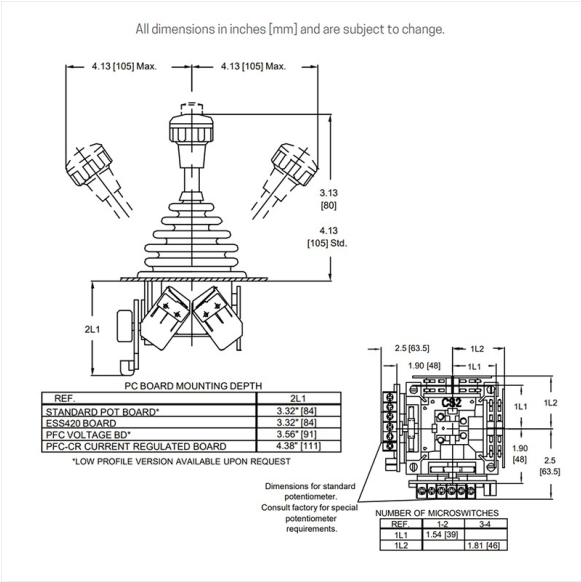
| | |
|---|---|
| Contact Specifications | Switch Type:<br>SPDT (Form C) SS Series Microswitches<br><br>Max. Number:<br>Up to 4 per axis with potentiometer<br>Up to 6 per axis without potentiometer<br><br>Current Rating (AC):<br>5A<br><br>Voltage Rating (AC):<br>250<br><br>Termination:<br>.110 x .20" quick disconnect<br><br>Max. Wire Size:<br>18 AWG |
| Additional Specifications | Reference product literature for additional specifications |

# Technical Drawings

## Dimensional

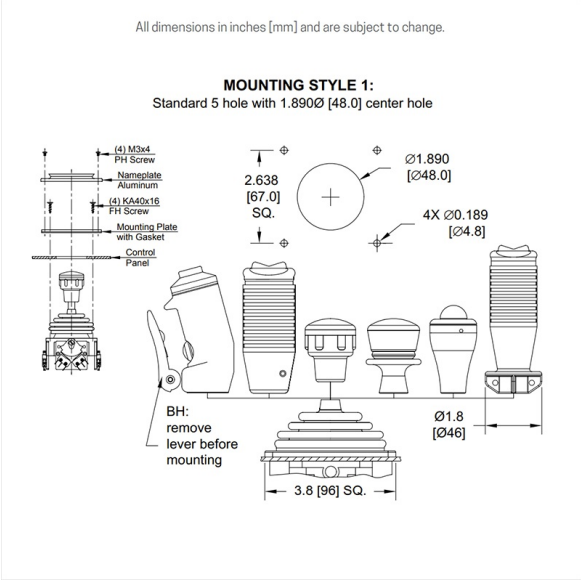



VCS2 overall dimensions with microswitches. Shown with standard 2 piece handle.

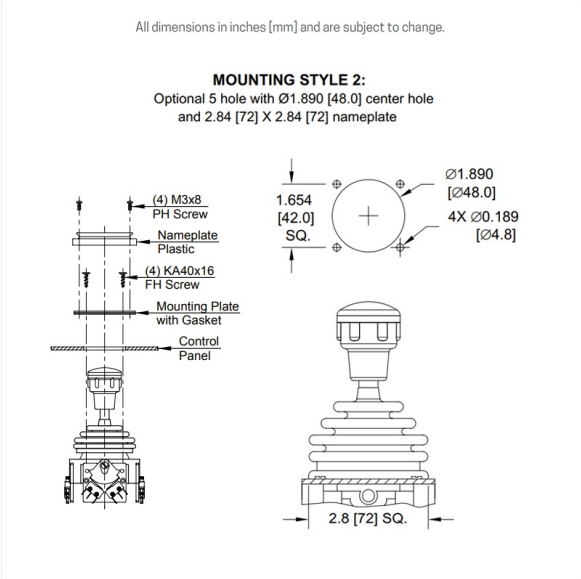



VCS2 overall dimensions with PC boards. Shown with standard 2 piece handle.

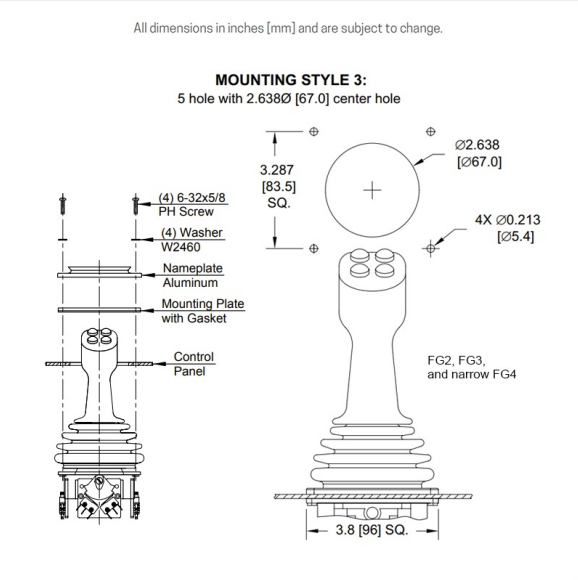
## Mounting



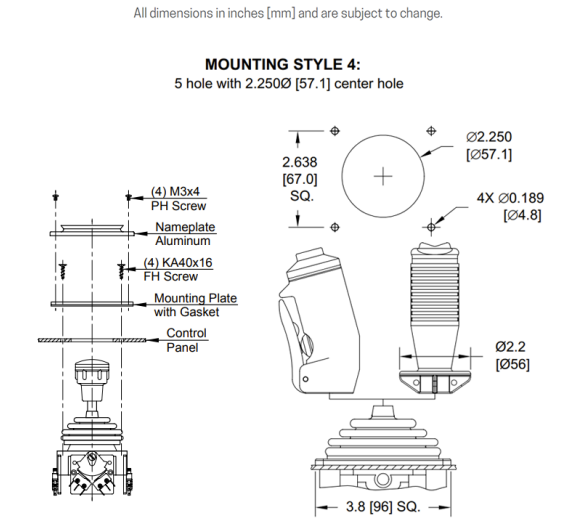

Mounting style 1. Standard VCS2 mounting for use with BH, RH, RHS, MG27 and standard handles.




Mounting style 2. Optional mounting for use with 2.84 x 2.84 nameplate.




Mounting style 3. For use with FG2, FG3, and narrow FG4 handles.




Mounting style 4. For use with BH handle and RH handles. BH lever does not need to be removed for installation.