

# JS-500-HD

PRO-SERIES

Dual Axis Contact Joystick With ½ NPT Adaptor



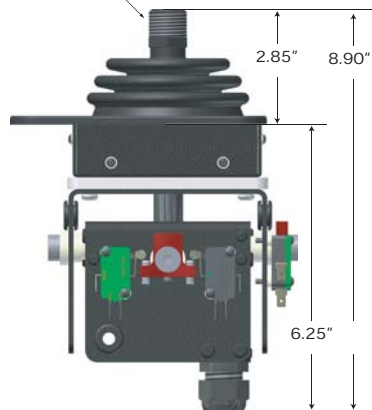
Product shown without cable harness for clarity

## GENERAL DIMENSIONS

-X



½ NPT



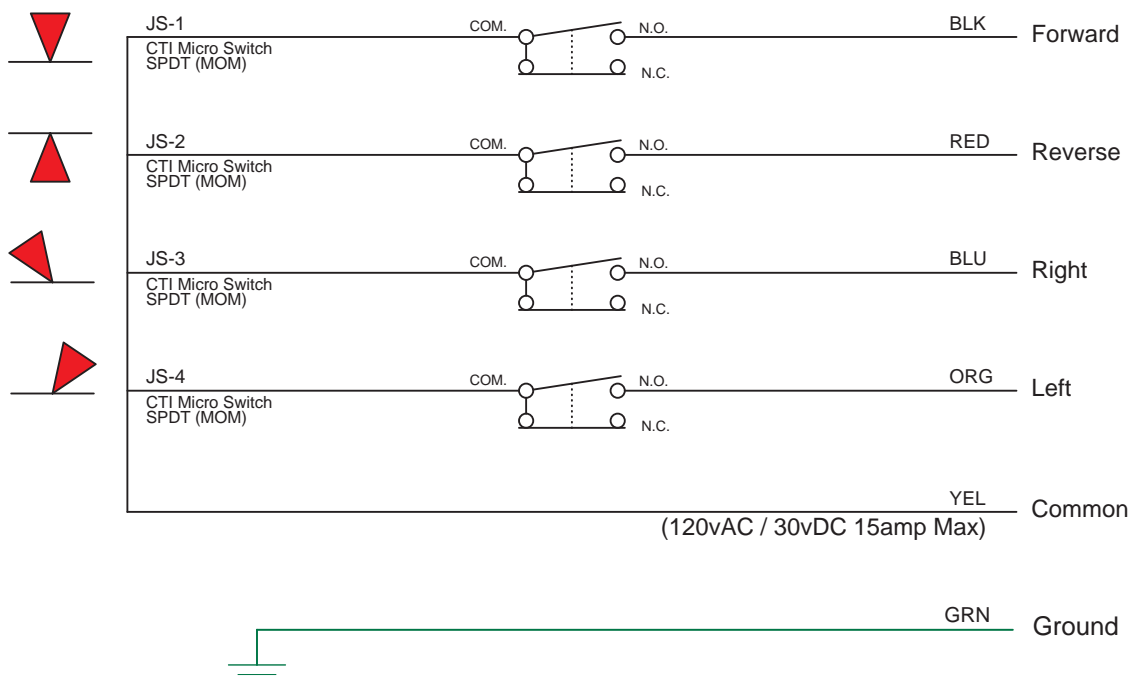
Product shown without switches for clarity

## Control Unit Features:

- Contact Rating: 16 Amps@125/250 vAC
- Standard Wiring N.O.
- 16 ± 2 Degrees (On X/Y Axis) From Center
- 10lbs @ Contact (On X/Y Axis)
- 4 Ft Cable Harness
- Std ½ NPT Mounting Thread
- Protective Boot Seal
- Heavy Duty Construction

PRO-SERIES JOYSTICK

CTI PART# : CTI-2021454



## Spare Replacment Components For Part #CTI-2021454

Cable Harness: 22-C-NQ720-J-4

Adaptor: 28-040039-01

Fwd/Rev Switch: 32-S-V3L-G-3003-D8

Lt/Rt Switch: 32-S-V3L-G-3003-D8

Protective Boot: 33-BSB-970014-01

Boot Seal Plate: 65-A02132-03

Adjustable Cam: 63-970200-03

Control Stick: 71-933021-01



# JS-500-HD

PRO-SERIES

Dual Axis Contact Joystick With 10K Potentiometers + ½ NPT Adaptor



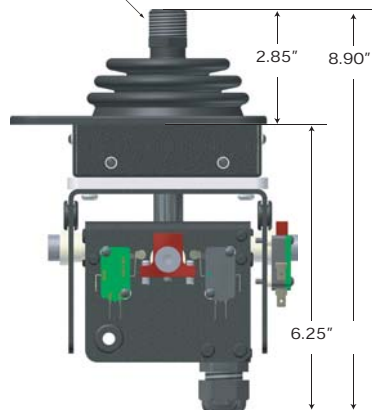
Product shown without cable harness for clarity

## GENERAL DIMENSIONS

-X



½ NPT



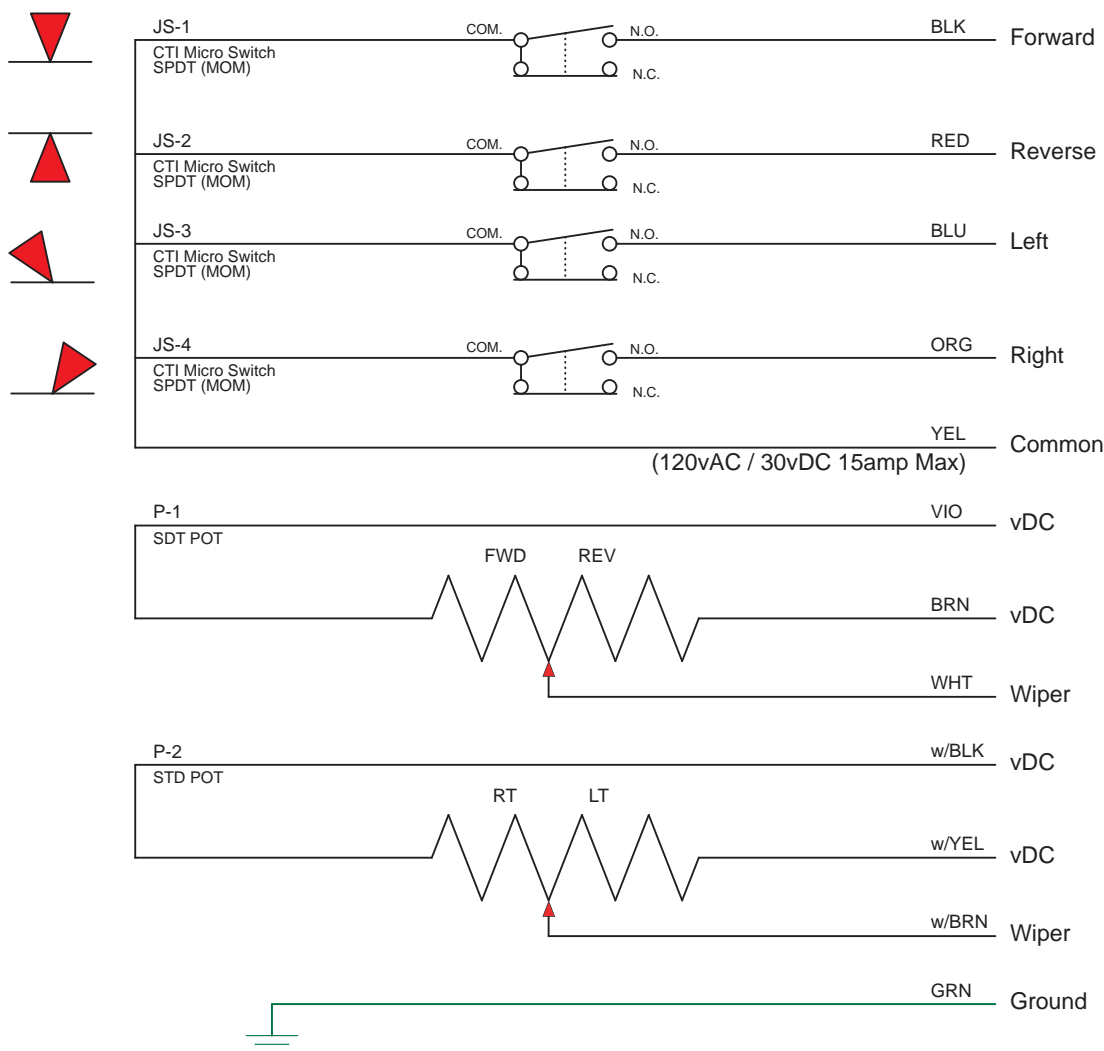
Product shown without switches for clarity

## Control Unit Features:

- Contact Rating: 16 Amps@125/250 vAC
- Standard Wiring N.O.
- 16 ± 2 Degrees (On X/Y Axis) From Center
- 10lbs @ Contact (On X/Y Axis)
- 10K, 3 Watt Potentiometers
- Std ½ NPT Mounting Thread
- 4 Ft Cable Harness
- Protective Boot Seal
- Heavy Duty Construction

PRO-SERIES JOYSTICK

CTI PART#: CTI-2021457



## Spare Replacment Components For Part #

CTI-2021457

Cable Harness: 22-C-NQ1520-J-4

Protective Boot: 33-BSB-970014-01 Control Stick: 71-933020-01

Adaptor: 28-040039-01

Boot Seal Plate: 65-A02132-03

Fwd/Rev Switch: 32-S-V3L-G-3003-D8

Adjustable Cam: 63-970200-03

Lt/Rt Switch: 32-S-V3L-G-3003-D8

10K Potentiometer: 46-P-53C3-10K



# JS-500-HD

PRO-SERIES

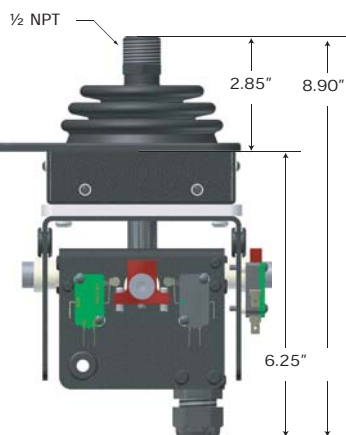
Dual Axis Contact Joystick With 5K Potentiometers + ½ NPT Adaptor



Product shown without cable harness for clarity

## GENERAL DIMENSIONS

-X



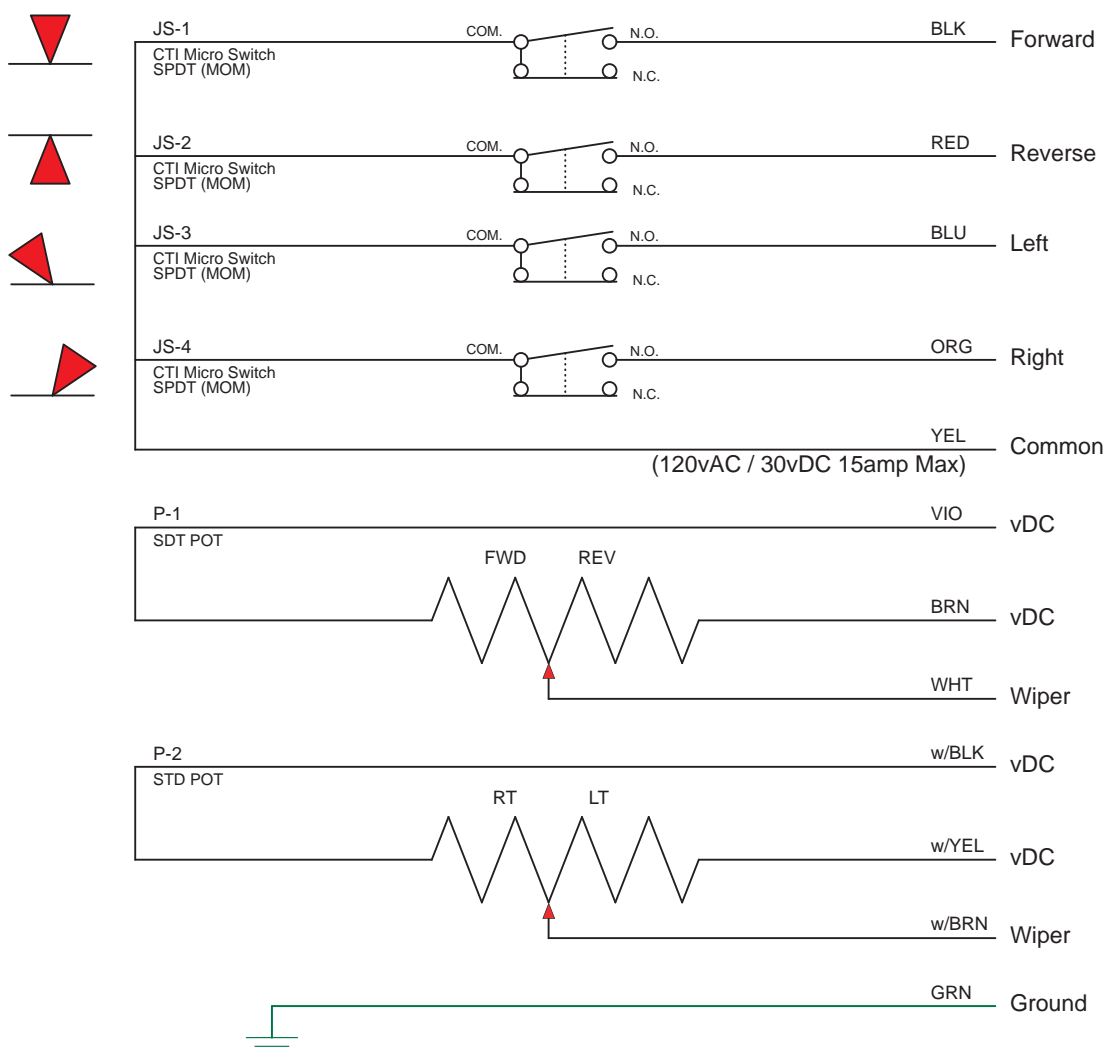
Product shown without switches for clarity

## Control Unit Features:

- Contact Rating: 16 Amps@125/250 vAC
- Standard Wiring N.O.
- 16 ± 2 Degrees (On X/Y Axis) From Center
- 10lbs @ Contact (On X/Y Axis)
- 5K, 3 Watt Potentiometers
- Std ½ NPT Mounting Thread
- 4 Ft Cable Harness
- Protective Boot Seal
- Heavy Duty Construction

PRO-SERIES JOYSTICK

CTI PART#: CTI-2021456



## Spare Replacement Components For Part #

CTI-2021456

Cable Harness: 22-C-NQ1520-J-4

Protective Boot: 33-BSB-970014-01 Control Stick: 71-933020-01

Adaptor: 28-040039-01

Boot Seal Plate: 65-A02132-03

Fwd/Rev Switch: 32-S-V3L-G-3003-D8 Adjustable Cam: 63-970200-03

Lt/Rt Switch: 32-S-V3L-G-3003-D8

5K Potentiometer: 46-P-53C3-5K





# JS-500-HD

PRO-SERIES

Dual Axis Contact Joystick With Proportional Controller Cards + ½ NPT Adaptor



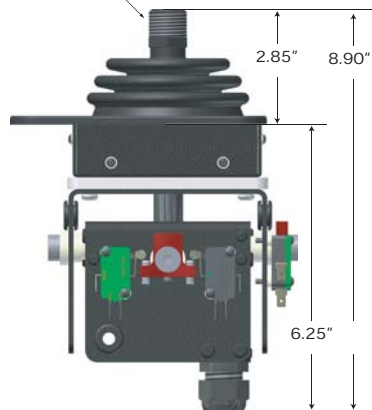
Product shown without cable harness for clarity

## GENERAL DIMENSIONS

-X



½ NPT



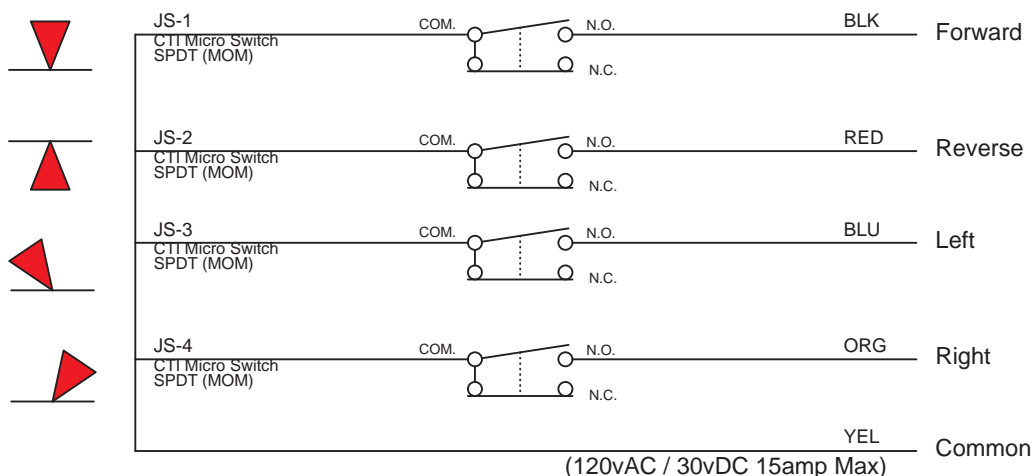
Product shown without switches for clarity

## Control Unit Features:

- Contact Rating: 16 Amps@125/250 vAC
- Standard Wiring N.O.
- 16 ± 2 Degrees (On X/Y Axis) From Center
- 10lbs @ Contact (On X/Y Axis)
- Proportional Controller Cards
- Std ½ NPT Mounting Thread
- 4 Ft Cable Harness
- Protective Boot Seal
- Heavy Duty Construction

PRO-SERIES JOYSTICK

CTI PART# : CTI-2021458



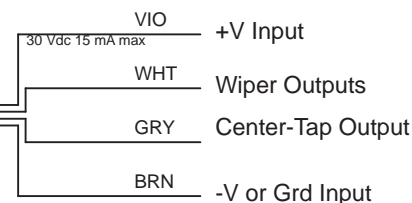
PCC-1  
CTI Prop Controller  
Fwd-Rev

Note: Center Tap Equals 1/2 of Voltage supplied

### Proportional Controller

100-020103-01

For proportional output options see  
Technical Information.

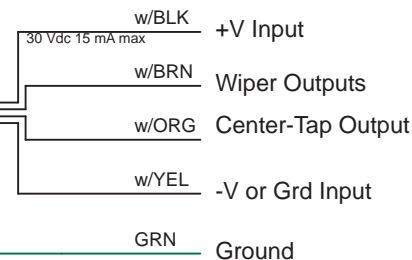


PCC-2  
CTI Prop Controller  
Lt-Rt

### Proportional Controller

100-020103-01

For proportional output options see  
Technical Information.



## Spare Replacement Components For Part #

CTI-2021458

Cable Harness: 22-C-NQ1520-J-4

Protective Boot: 33-BSB-970014-01 Control Stick: 71-933020-01

Adaptor: 28-040039-01

Boot Seal Plate: 65-A02132-03

Fwd/Rev Switch: 32-S-V3L-G-3003-D8

Adjustable Cam: 63-970200-03

Lt/Rt Switch: 32-S-V3L-G-3003-D8

Controller Card: 100-020103-01



# JS-500-HD

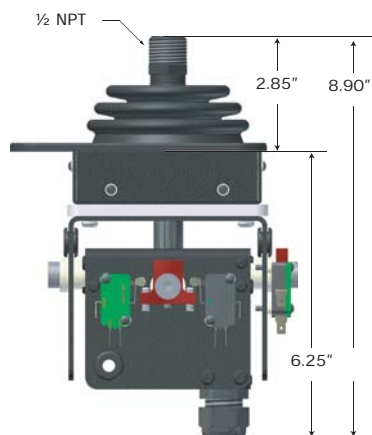
PRO-SERIES

Dual Axis Contact Joystick With Single 10K Potentiometer + ½ NPT Adaptor



Product shown without cable harness for clarity

## GENERAL DIMENSIONS



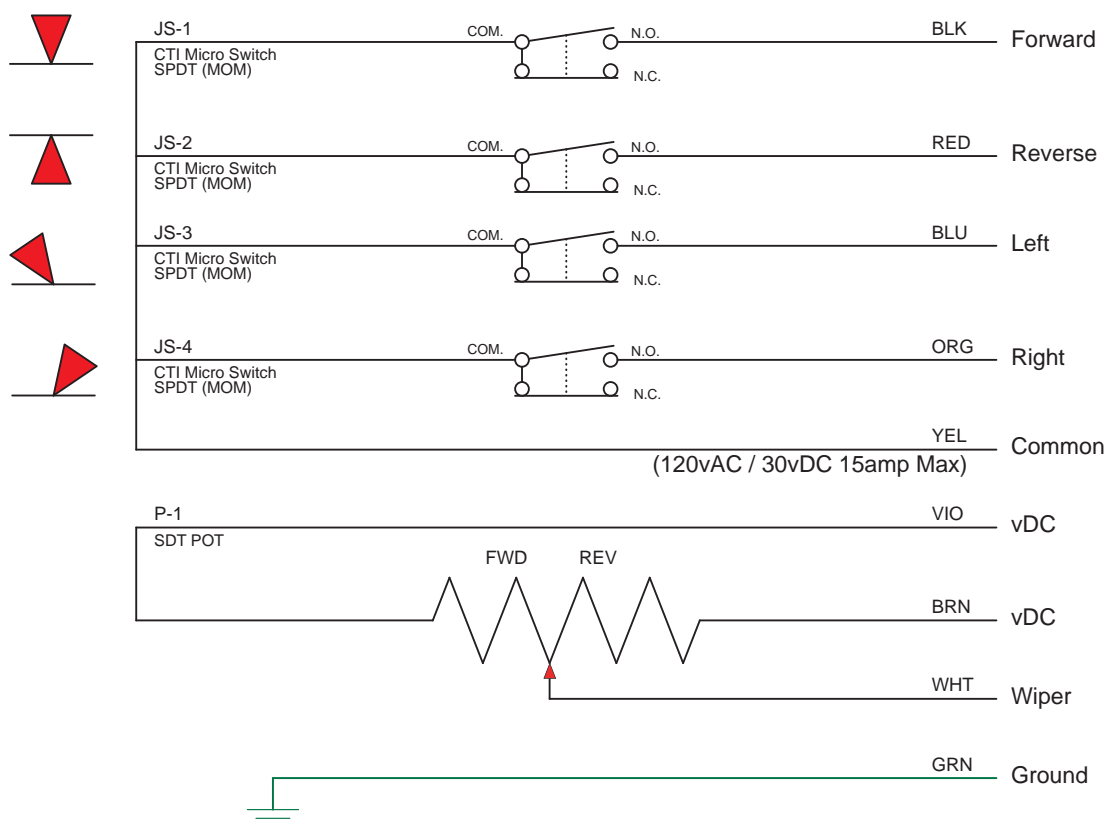
Product shown without switches for clarity

## Control Unit Features:

- Contact Rating: 16 Amps@125/250 vAC
- Standard Wiring N.O.
- 16 ± 2 Degrees (On X/Y Axis) From Center
- 10lbs @ Contact (On X/Y Axis)
- 10K, 3 Watt Potentiometer
- Std ½ NPT Mounting Thread
- 4 Ft Cable Harness
- Protective Boot Seal
- Heavy Duty Construction

## PRO-SERIES JOYSTICK

CTI PART# : CTI-2021460



## Spare Replacment Components For Part #

CTI-2021460

Cable Harness: 22-C-NQ1520-J-4

Protective Boot: 33-BSB-970014-01 Control Stick: 71-933020-01

Adaptor: 28-040039-01

Boot Seal Plate: 65-A02132-03

Fwd/Rev Switch: 32-S-V3L-G-3003-D8 Adjustable Cam: 63-970200-03

Lt/Rt Switch: 32-S-V3L-G-3003-D8

10K Potentiometer: 46-P-53C3-10K



# JS-500-HD

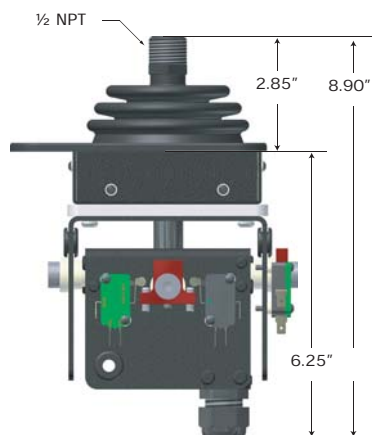
PRO-SERIES

Dual Axis Contact Joystick With Single 5K Potentiometer + ½ NPT Adaptor



Product shown without cable harness for clarity

## GENERAL DIMENSIONS



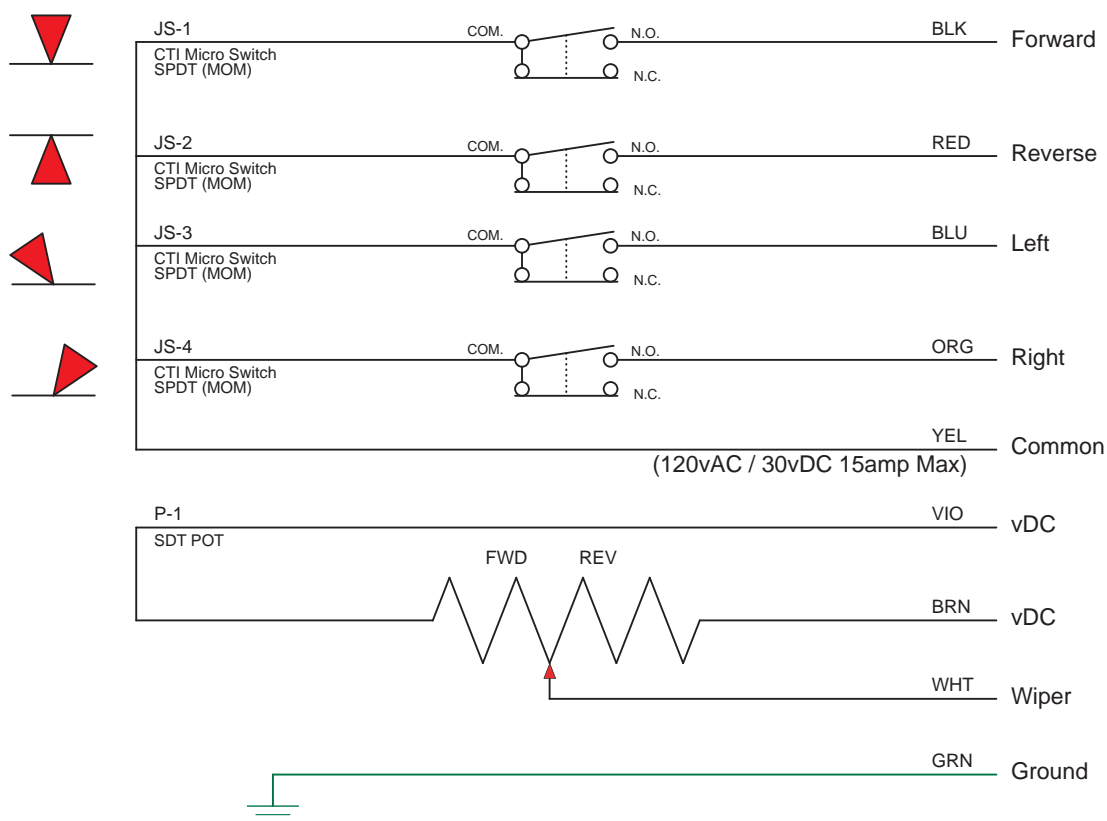
Product shown without switches for clarity

## Control Unit Features:

- Contact Rating: 16 Amps@125/250 vAC
- Standard Wiring N.O.
- 16 ± 2 Degrees (On X/Y Axis) From Center
- 10lbs @ Contact (On X/Y Axis)
- 5K, 3 Watt Potentiometer
- Std ½ NPT Mounting Thread
- 4 Ft Cable Harness
- Protective Boot Seal
- Heavy Duty Construction

PRO-SERIES JOYSTICK

CTI PART# : CTI-2021459



## Spare Replacment Components For Part #

CTI-2021459

Cable Harness: 22-C-NQ1520-J-4

Protective Boot: 33-BSB-970014-01 Control Stick: 71-933020-01

Adaptor: 28-040039-01

Boot Seal Plate: 65-A02132-03

Fwd/Rev Switch: 32-S-V3L-G-3003-D8 Adjustable Cam: 63-970200-03

Lt/Rt Switch: 32-S-V3L-G-3003-D8

5K Potentiometer: 46-P-53C3-5K





# JS-500-HD

PRO-SERIES

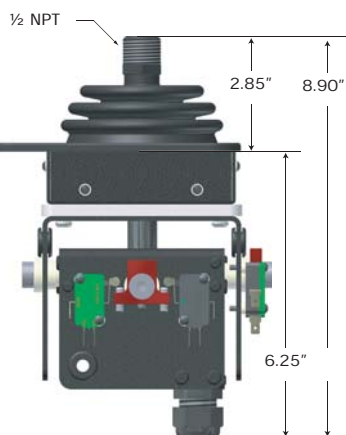
Dual Axis Contact Joystick With Single Porportional Controller Card + ½ NPT Adaptor



Product shown without cable harness for clarity

## GENERAL DIMENSIONS

-X



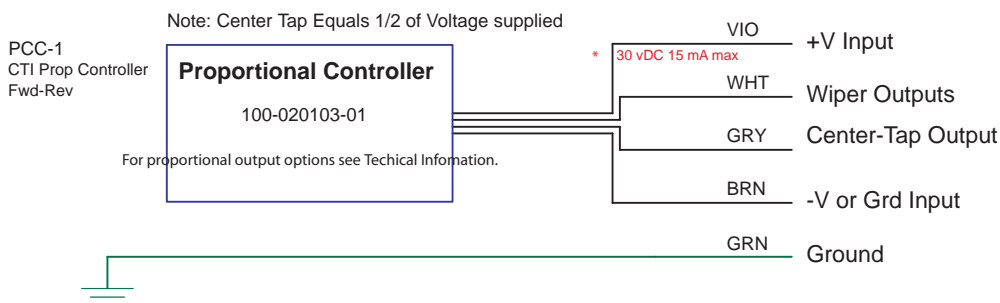
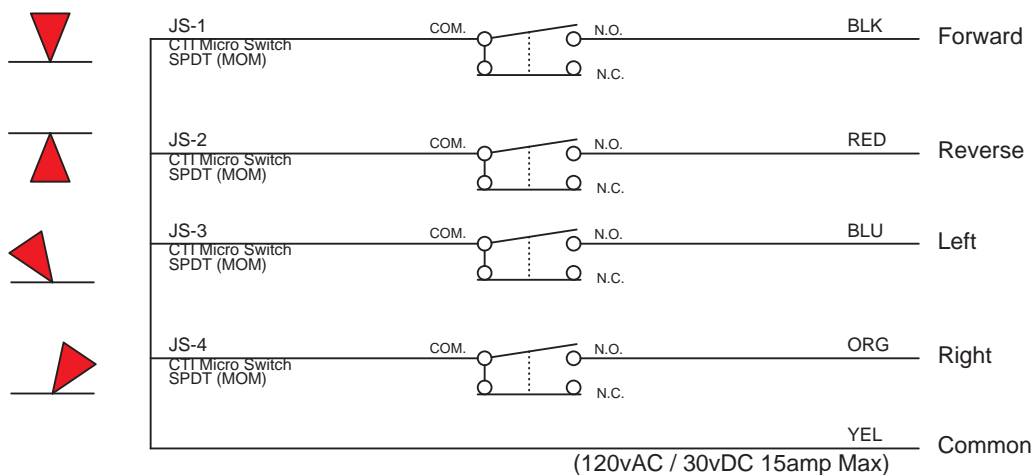
Product shown without switches for clarity

## Control Unit Features:

- Contact Rating: 16 Amps@125/250 vAC
- Standard Wiring N.O.
- 16 ± 2 Degrees (On X/Y Axes) From Center
- 10lbs @ Contact (On X/Y Axes)
- Proportional Controller Card
- Std ½ NPT Mounting Thread
- 4 Ft Cable Harness
- Protective Boot Seal
- Heavy Duty Construction

PRO-SERIES JOYSTICK

CTI PART# : CTI-2021461



## Spare Replacment Components For Part #

CTI-2021461

Cable Harness: 22-C-NQ1520-J-4

Protective Boot: 33-BSB-970014-01 Control Stick: 71-933020-01

Adaptor: 28-040039-01

Boot Seal Plate: 65-A02132-03

Fwd/Rev Switch: 32-S-V3L-G-3003-D8 Adjustable Cam: 63-970200-03

Lt/Rt Switch: 32-S-V3L-G-3003-D8

Controller Card: 100-020103-01



# JS-500-HDS

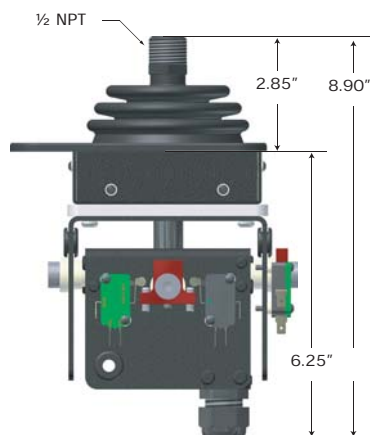
PRO-SERIES

Single Axis Contact Joystick With ½ NPT Adaptor



Product shown without cable harness for clarity

## GENERAL DIMENSIONS



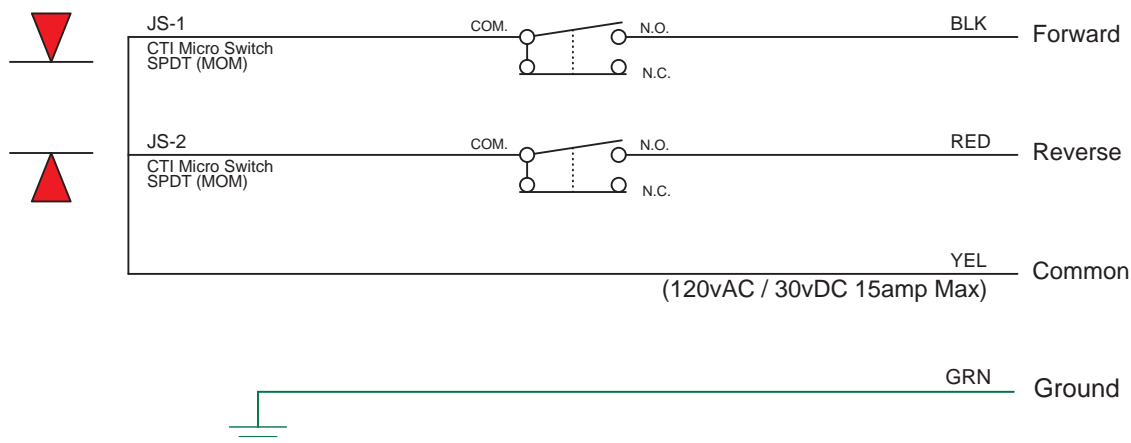
Product shown without switches for clarity

## Control Unit Features:

- Contact Rating: 16 Amps@125/250 vAC
- Standard Wiring N.O.
- 16 ± 2 Degrees From Center
- 10lbs @ Contact (On Y Axes)
- 4 Ft Cable Harness
- Std ½ NPT Mounting Thread
- Protective Boot Seal
- Heavy Duty Construction

PRO-SERIES JOYSTICK

CTI PART# : CTI-2021455



## Spare Replacment Components For Part #CTI-2021455

Cable Harness: 22-C-NQ720-J-4

Adaptor: 28-040039-01

Fwd/Rev Switch: 32-S-V3L-G-3003-D8

Protective Boot: 33-BSB-970014-01

Boot Seal Plate: 65-A02132-03

Adjustable Cam: 63-970200-03

Control Stick: 71-933021-01





# JS-500-HDS

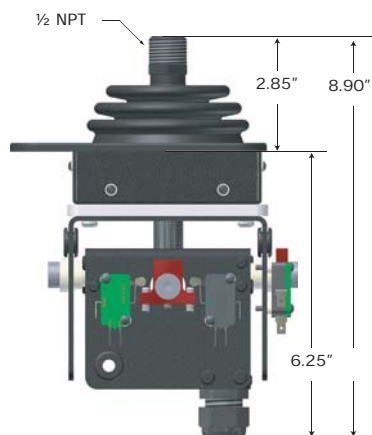
PRO-SERIES

Single Axis Contact Joystick With Single 10K Potentiometer + ½ NPT Adaptor



Product shown without cable harness for clarity

## GENERAL DIMENSIONS



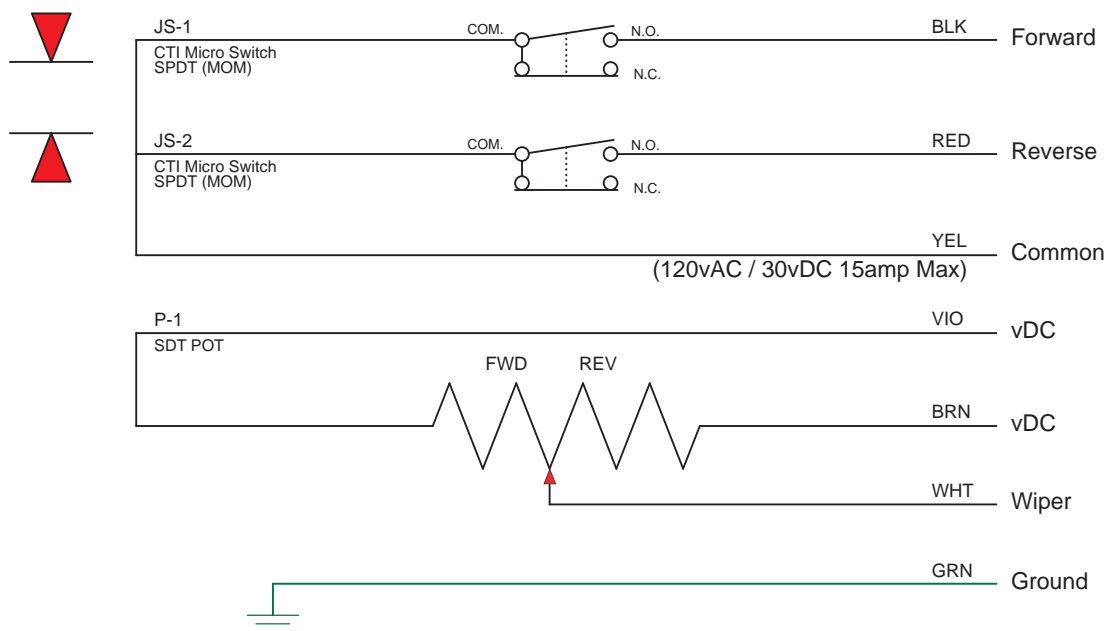
Product shown without switches for clarity

## Control Unit Features:

- Contact Rating: 16 Amps@125/250 vAC
- Standard Wiring N.O.
- 16 ± 2 Degrees (On X/Y Axis) From Center
- 10lbs @ Contact (On X/Y Axis)
- 10K, 3 Watt Potentiometer
- Std ½ NPT Mounting Thread
- 4 Ft Cable Harness
- Protective Boot Seal
- Heavy Duty Construction

PRO-SERIES JOYSTICK

CTI PART#: CTI-2021463



## Spare Replacement Components For Part #CTI-2021463

Cable Harness: 22-C-NQ1520-J-4

Adaptor: 28-040039-01

Fwd/Rev Switch: 32-S-V3L-G-3003-D8

Control Stick: 71-933020-01

Protective Boot: 33-BSB-970014-01

Boot Seal Plate: 65-A02132-03

Adjustable Cam: 63-970200-03

10K Potentiometer: 46-P-53C3-10K



# JS-500-HDS

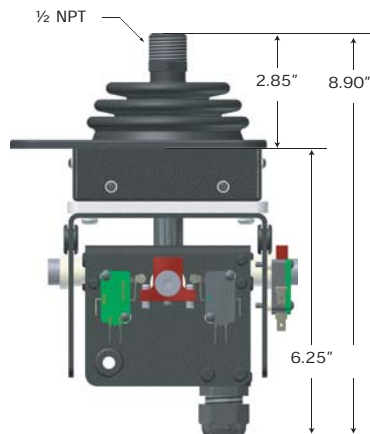
PRO-SERIES

Single Axis Contact Joystick With 5K Potentiometer + ½ NPT Adaptor



Product shown without cable harness for clarity

## GENERAL DIMENSIONS



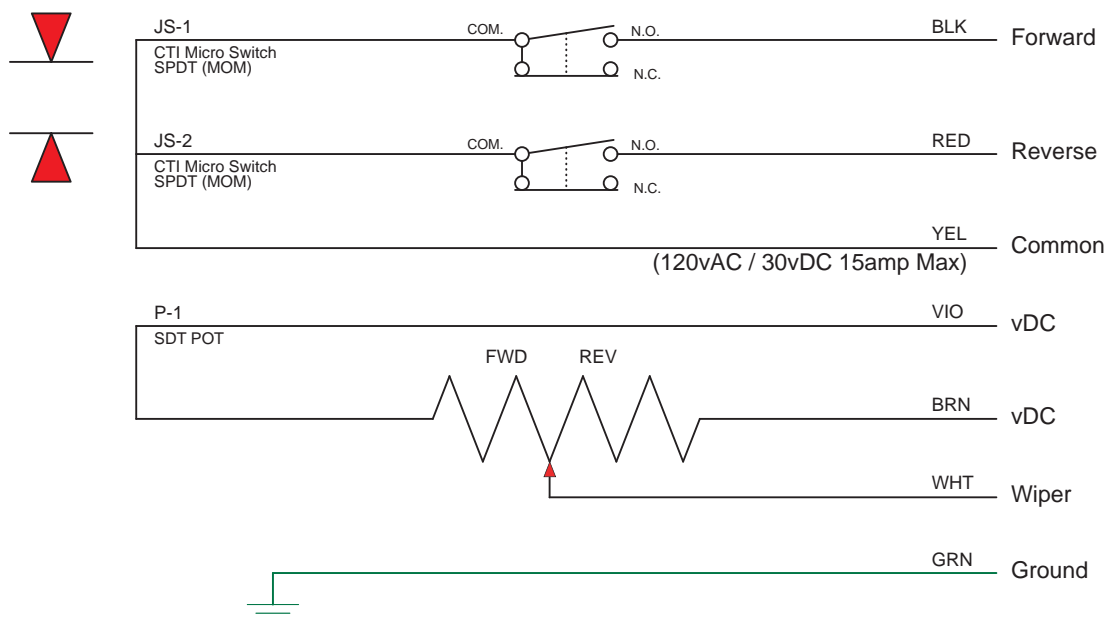
Product shown without switches for clarity

## Control Unit Features:

- Contact Rating: 16 Amps@125/250 vAC
- Standard Wiring N.O.
- 16 ± 2 Degrees (On X/Y Axes) From Center
- 10lbs @ Contact (On X/Y Axes)
- 5K, 3 Watt Potentiometer
- Std ½ NPT Mounting Thread
- 4 Ft Cable Harness
- Protective Boot Seal
- Heavy Duty Construction

PRO-SERIES JOYSTICK

CTI PART# : CTI-2021462



## Spare Replacment Components For Part # CTI-2021462

Cable Harness: 22-C-NQ1520-J-4

Adaptor: 28-040039-01

Fwd/Rev Switch: 32-S-V3L-G-3003-D8

Control Stick: 71-933020-01

Protective Boot: 33-BSB-970014-01

Boot Seal Plate: 65-A02132-03

Adjustable Cam: 63-970200-03

5K Potentiometer: 46-P-53C3-5K



# JS-500-HDS

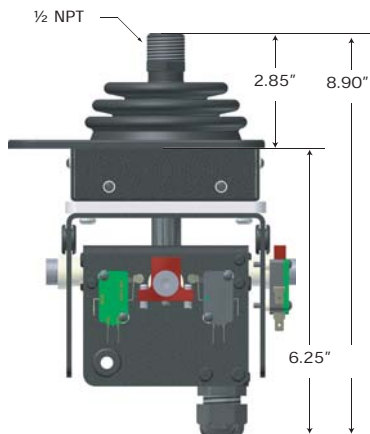
PRO-SERIES

Single Axis Contact Joystick With Single Porportional Controller Card + ½ NPT Adaptor



Product shown without cable harness for clarity

## GENERAL DIMENSIONS



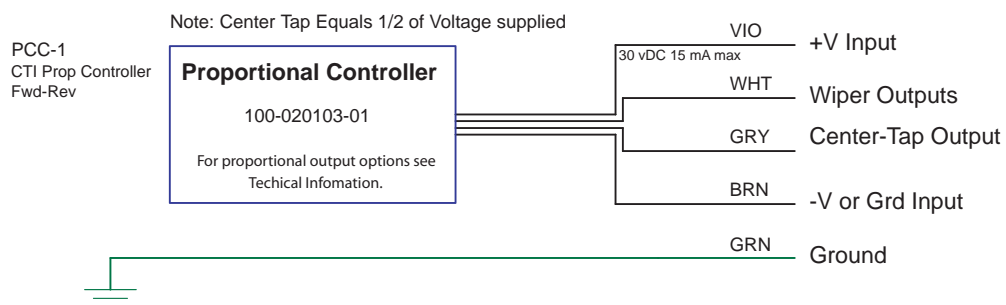
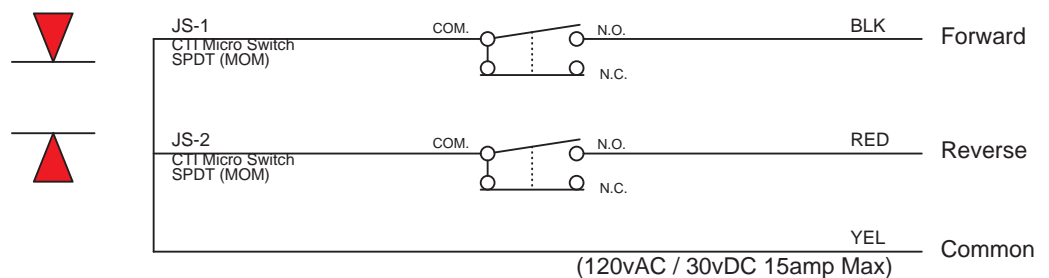
Product shown without switches for clarity

## Control Unit Features:

- Contact Rating: 16 Amps@125/250 vAC
- Standard Wiring N.O.
- 16 ± 2 Degrees (On X/Y Axis) From Center
- 10lbs @ Contact (On X/Y Axis)
- Proportional Controller Card
- Std ½ NPT Mounting Thread
- 4 Ft Cable Harness
- Protective Boot Seal
- Heavy Duty Construction

## PRO-SERIES JOYSTICK

CTI PART# : CTI-2021464



## Spare Replacment Components For Part #CTI-2021464

Cable Harness: 22-C-NQ1520-J-4

Adaptor: 28-040039-01

Fwd/Rev Switch: 32-S-V3L-G-3003-D8

Control Stick: 71-933020-01

Protective Boot: 33-BSB-970014-01

Boot Seal Plate: 65-A02132-03

Adjustable Cam: 63-970200-03

Controller Card: 100-020103-01





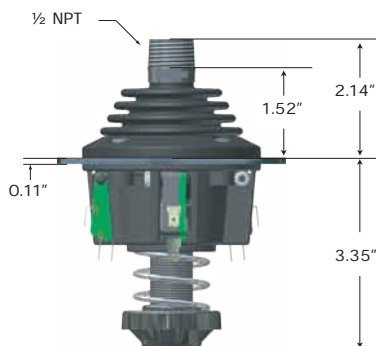
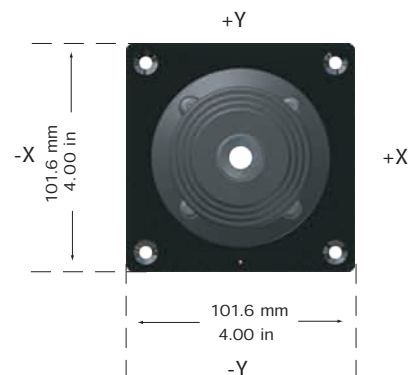
# JS-2050-HD

Dual Axis Contact Joystick With ½ NPT Adaptor



Product shown without cable harness for clarity

## GENERAL DIMENSIONS

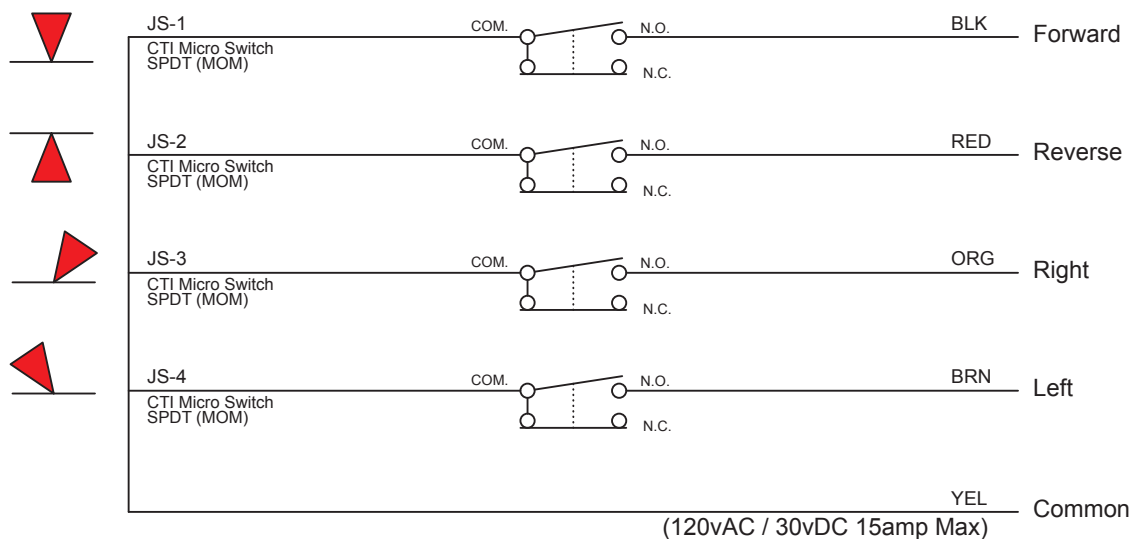


Product shown without switches for clarity

## Control Unit Features:

- Contact Rating: 16 Amps@125/250 vAC
- Standard Wiring N.O.
- Compact footprint/profile
- 6lbs @ Contact (On X/Y Axes)
- 4 Ft Cable Harness
- Single Center Spring
- Protective Boot Seal
- Low parts count

CTI PART# : CTI-2021450



## Spare Replacment Components For Part # CTI-2021450

Cable Harness: 22-C-NQ520-J-4

Adaptor: 28-040039-01

Fwd/Rev Switch: 32-S-V3L-G-3003-D8

Lt/Rt Switch: 32-S-V3L-G-3003-D8

Protective Boot: 33-B5B-020179-01

Center Spring: 14-S-3747

Spring Tension Nut: 63-960408-01

Control Stick: 71-010141-02

Document Date: 10-25-2005

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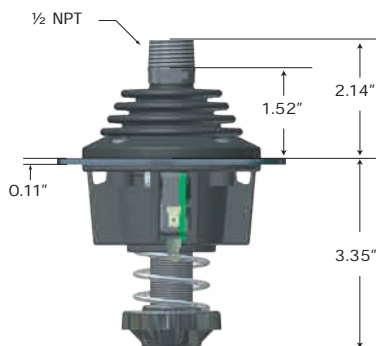
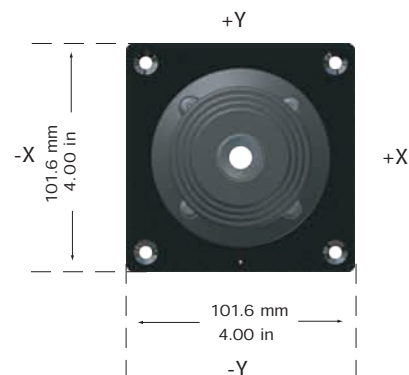
# JS-2050-HD

Single Axes Contact Joystick With ½ NPT Adaptor



Product shown without cable harness for clarity

## GENERAL DIMENSIONS

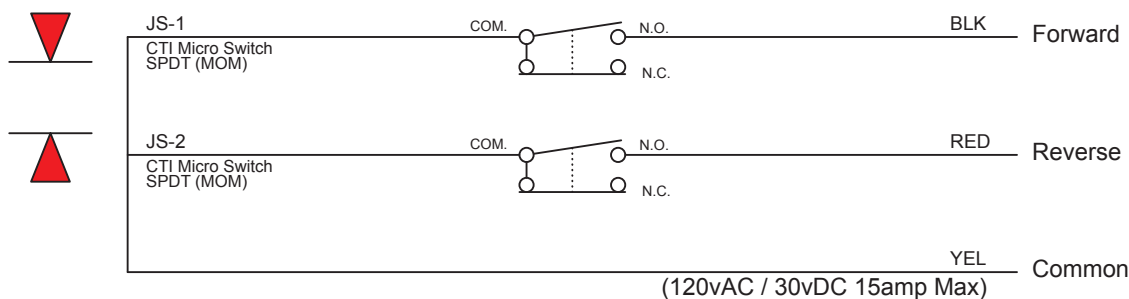


Product shown without switches for clarity

## Control Unit Features:

- Contact Rating: 16 Amps@125/250 vAC
- Standard Wiring N.O.
- Compact footprint/profile
- 6lbs @ Contact (On X/Y Axes)
- 4 Ft Cable Harness
- Single Center Spring
- Protective Boot Seal
- Low parts count

CTI PART# : CTI-2021451



## Spare Replacment Components For Part # CTI-2021451

Cable Harness: 22-C-NQ520-J-4

Adaptor: 28-040039-01

Fwd/Rev Switch: 32-S-V3L-G-3003-D8

Protective Boot: 33-B5B-020179-01

Center Spring: 14-S-3747

Spring Tension Nut: 63-960408-01

Control Stick: 71-010141-02



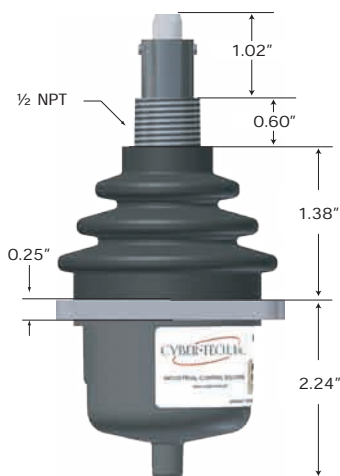
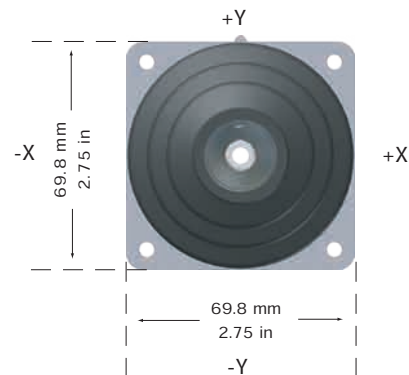
# JS-SERIES

## Dual Axis Hall Effect Joystick With ½ NPT Adaptor



Product shown without cable harness for clarity

### GENERAL DIMENSIONS

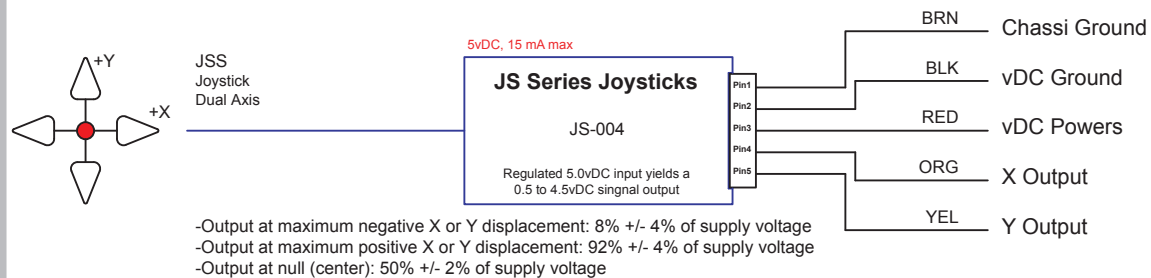


Product shown without switches for clarity

### Control Unit Features:

- Non-contact, Hall sensors
- Rugged design - die cast metal frame
- Compact footprint/profile
- Long life - lab tested to 15 million cycles
- 4 Ft Cable Harness
- Linear output over entire handle displacement with no hysteresis
- EMI/RFI protected
- Stable null
- Low power consumption
- Low parts count

CTI PART# : CTI-2021446



# JS-004

Spare Replacment Components For Part # **CTI-2021446**

Cable Harness: **76-CA-JSS-00-4**

Adaptor: **62-050011-01**





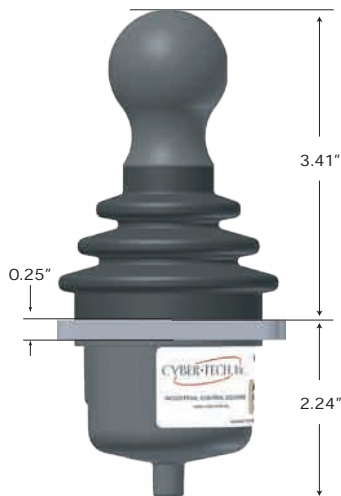
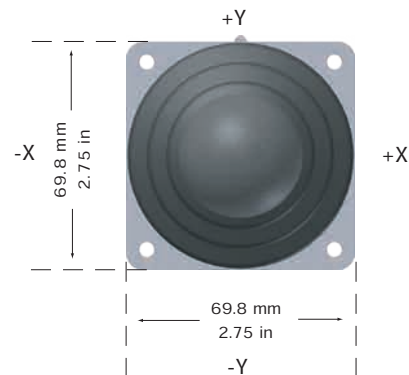
# JS-SERIES

## Dual Axis Hall Effect Joystick With Ball Knob



Product shown without cable harness for clarity

### GENERAL DIMENSIONS

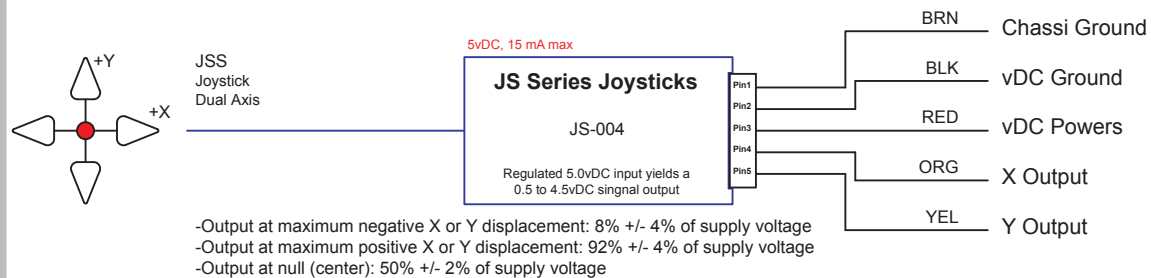


Product shown without switches for clarity

### Control Unit Features:

- Non-contact, Hall sensors
- Rugged design - die cast metal frame
- Compact footprint/profile
- Long life - lab tested to 15 million cycles
- 4 Ft Cable Harness
- Linear output over entire handle displacement with no hysteresis
- EMI/RFI protected
- Stable null
- Low power consumption
- Low parts count

CTI PART# : CTI-2021447



# JS-004

Spare Replacment Components For Part # **CTI-2021447**

Cable Harness: **76-CA-JSS-00-4**



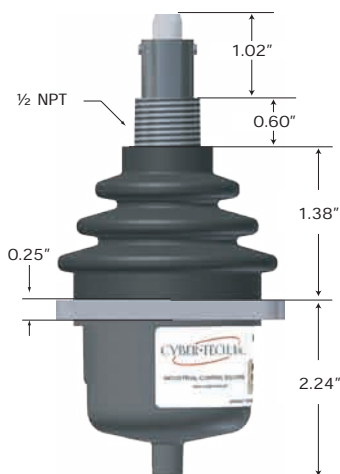
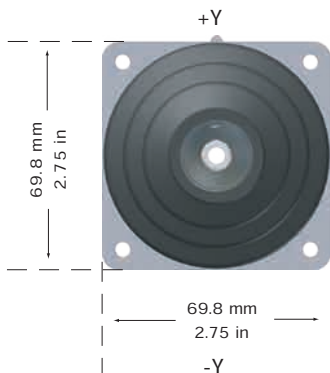
# JS-SERIES

Single Axis Hall Effect Joystick With ½ NPT Adaptor



Product shown without cable harness for clarity

## GENERAL DIMENSIONS



Product shown without switches for clarity

## Control Unit Features:

- Non-contact, Hall sensors
- Rugged design - die cast metal frame
- Compact footprint/profile
- Long life - lab tested to 15 million cycles
- 4 Ft Cable Harness
- Linear output over entire handle displacement with no hysteresis
- EMI/RFI protected
- Stable null
- Low power consumption
- Low parts count

CTI PART# : CTI-2021448



JSS  
Joystick  
Single Axis

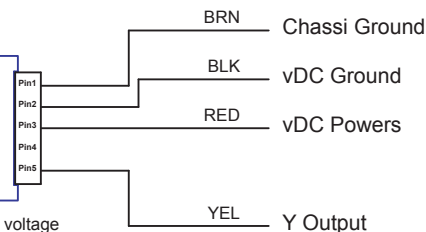
5vDC, 15 mA max

### JS Series Joysticks

JS-002

Regulated 5.0vDC input yields a  
0.5 to 4.5vDC signal output

- Output at maximum negative Y displacement: 8% +/- 4% of supply voltage
- Output at maximum positive Y displacement: 92% +/- 4% of supply voltage
- Output at null (center): 50% +/- 2% of supply voltage



# JS-002

Spare Replacment Components For Part # **CTI-2021448**

Cable Harness: **76-CA-JSS-00-4**

Adaptor: **62-050011-01**



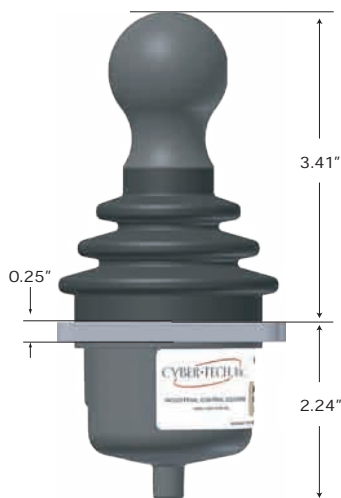
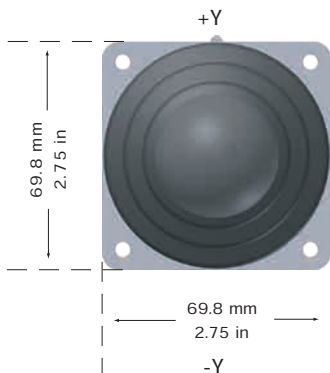
# JS-SERIES

## Single Axis Hall Effect Joystick With Ball Knob



Product shown without cable harness for clarity

### GENERAL DIMENSIONS



Product shown without switches for clarity

### Control Unit Features:

- Non-contact, Hall sensors
- Rugged design - die cast metal frame
- Compact footprint/profile
- Long life - lab tested to 15 million cycles
- 4 Ft Cable Harness
- Linear output over entire handle displacement with no hysteresis
- EMI/RFI protected
- Stable null
- Low power consumption
- Low parts count

CTI PART# : CTI-2021449



JSS  
Joystick  
Single Axis

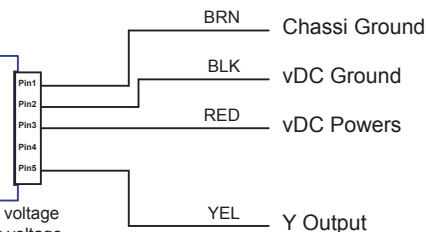
5vDC, 15 mA max

### JS Series Joysticks

JS-002

Regulated 5.0vDC input yields a  
0.5 to 4.5vDC signal output

- Output at maximum negative Y displacement: 8% +/- 4% of supply voltage
- Output at maximum positive Y displacement: 92% +/- 4% of supply voltage
- Output at null (center): 50% +/- 2% of supply voltage



# JS-002

Spare Replacment Components For Part # **CTI-2021449**

Cable Harness: **76-CA-JSS-00-4**

