Rev: 09/2020

CDJ150

Single-Axis Joystick with 4-20mA output

Control Devices CDJ150 single axis joystick uses the world renowned JC150 mechanical assembly that is used widely within the industry, around the world. The assembly is incorporated with Control Devices trialled and tested 4-20mA output electronic design. Various output configurations available, as well as many handle options. Safety features such as directional switches are available as a standard.

MECHANICAL

Dimension	As per drawing
Life Operation expectancy	Greater than 2 million ((0.5 million for Friction Lock (FL) action or handle options CL and EL)
Lever Action	Self centering (Standard) or friction lock (FL)
Lever breakout force*	4.9 to 10.7 (standard) 13 to 17 to overcome detent – FL options
Lever operating force**	16.8 to 21.5 (standard – full lever deflection) 8 to 12 when out of detent – FL option
Maximum allowable force**	300
Lever Operating angle	±34

***Measured at 75mm above upper flange face (80mm to FL option)**
****** Measured at 135 mm above upper flange face**

ENVIRONMENTAL

Ingress Protection	IP65 IEC 60529
Operating Temperature Range	-20 to +70 degrees Celsius
Storage Temperature	-40 to +85 degrees Celsius
Weight	560g without handle

ELECTRICAL

Resolution	Virtually infinite
Centre tap voltage	48 – 52% applied voltage
Centre tap angle	±2.5
Supply voltage – maximum	35 Vdc
Output Voltage range	0-100, 10-90, 25-75 of input voltage
Insulation resistance	Greater than 50MΩ at 500Vdc
Wiper circuit impedance	1 Mohm minimum recommended (The long-life resistive elements require a high impedance load in the wiper circuit to minimise the current flowing through the wiper for optimum life conditions.
Power Dissipation @ 25°C	0.25 W (no load)

****** The long life resistive elements require a high impedance load in the wiper circuit to minimise the current flowing through the wiper for optimum life conditions.**

Certified System
Quality
ISO 9001
SAI GLOBAL

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sales@controldevices.net
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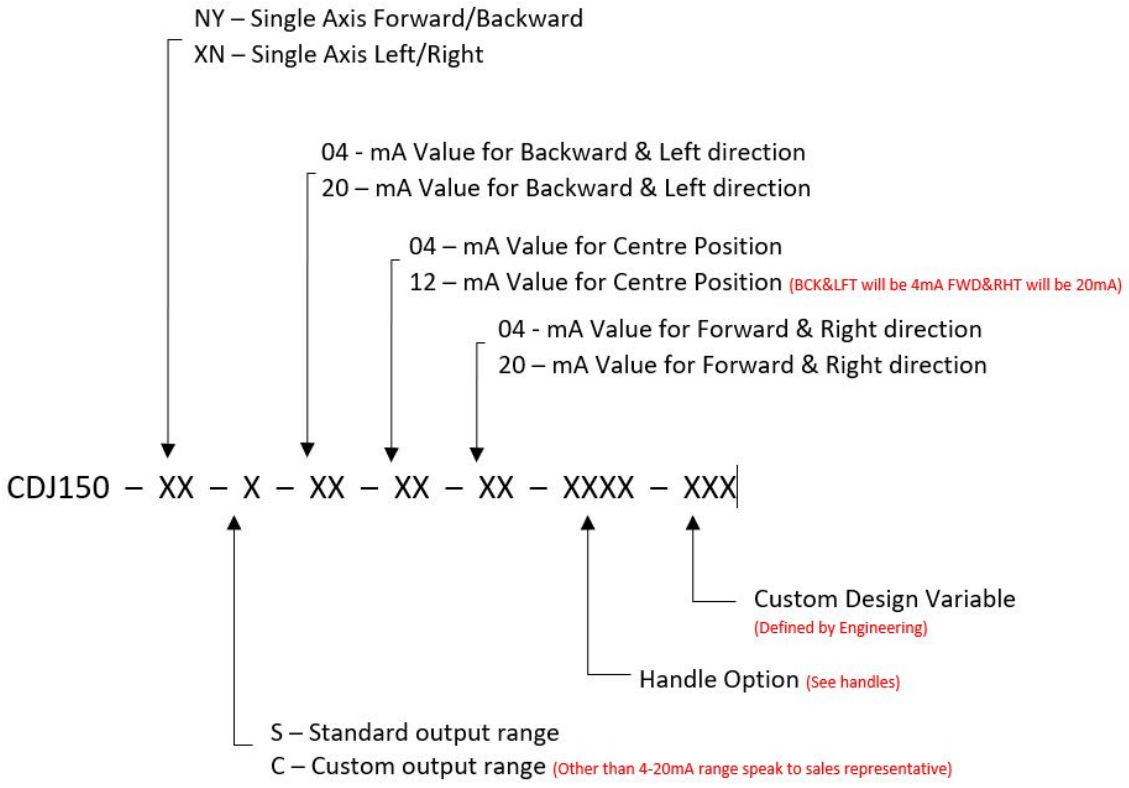
Switch – Directional or Centre off

Switch operation angle	Standard: 5 or 7.5° either side of centre

Switch – End Switch

Switch operation angle	Optional: 28.5° either side of centre
Supply voltage – maximum	35 Vdc
Local current – maximum	10 (resistive) mA

Part Configuration:



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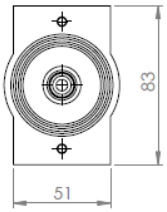
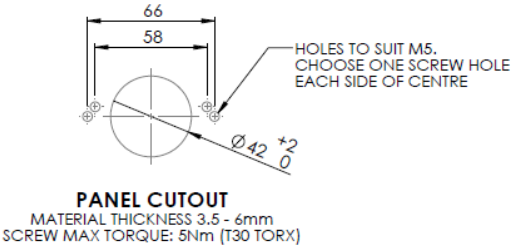
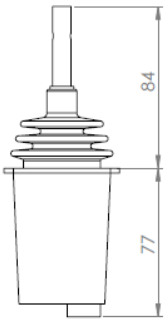
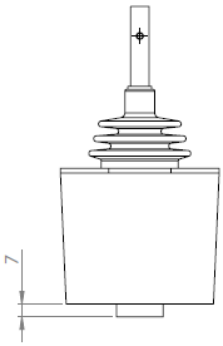
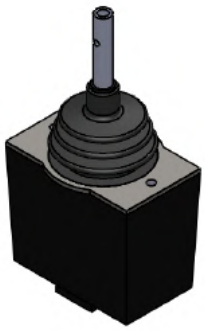




PANEL CUTOUT
MATERIAL THICKNESS 3.5 - 6mm
SCREW MAX TORQUE: 5Nm (T30 TORX)







HANDLE OPTIONS

HKN Knob

MG Handle

MDG Grip

RD1 Grip

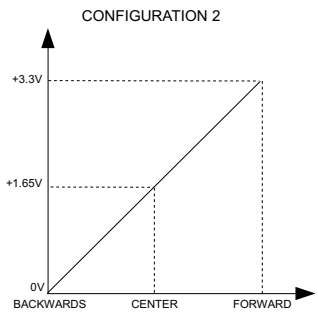
'A' Handle

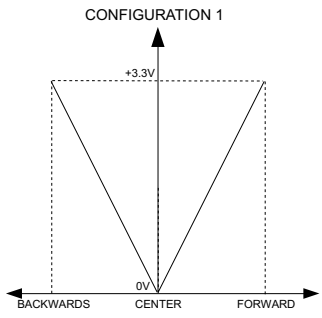
CDK Knob

DMD Handle

Custom Handles
Contact our sales team for custom options

CONFIGURATION SIGNALS:





Configuration List	Output Signal	Application
1	20-4-20mA	J1, J3 ON
2	4-12-20mA	J2, J4 ON
3	4-4-20mA	J2, J3 ON

CONFIG 1: J1 = J3 = 0R
CONFIG 2: J2 = J4 = 0R

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