



JC5D...

ORDERING CODE

JC

Heavy duty single Joystick



Handle (5 switches)



Directional switches



Functional operation

- 1 = singe axis (Y)
- 2 = dual axis (XY)



- A = With operator present trigger switch
- **B** = Without operator present trigger switch

00

No variants

1

Serial number

JC5D... HEAVY DUTY SINGLE JOYSTICK BASE

This is a rugged joystick with potentiometer and ergonomic handle. The joystick has a spring return lever for center position. Single axis Y or dual axes XY are available. The panel material for this joystick and thickness must be strong and rigid. The panel thickness should have a dimension of minimum 3.5mm and maximum 6mm. The joystick has two directional micro-switches per axis. The handle has 5 pushbuttons and it is possible to have the operator present switch too.

The IP protection of joystick is referred to above mounting panel and it can be max. IP65. N.B. below mounting panel the rating is IP40.

APPLICATIONS

The joystick has been designed for aerial platform, agricultural and forestry machinery. The use of this product with the electronic control unit for non contemporary movements gives the maximum advantage for hydraulic solutions controlled with a proportional valve.

Electrical features

 $\begin{array}{ll} \mbox{Potentiometer resistance} & 1.4 \div 2.2 \ \mbox{K}\Omega \\ \mbox{Max. supply voltage} & \mbox{VDD} = 32 \mbox{VDD} \\ \mbox{Max. supply voltage X and Y pot} & 0 - 100\% \mbox{VDD} \\ \mbox{Max. output current} & 5 \mbox{ mA} \end{array}$

Directional switches

Maximum supply voltage VCC = 32V DC
Max. output current 200 mA
Resistive load

Mechanical features

Mechanical angle $\pm 20^{\circ}$ Maximum operating load 390 N (Measured 130 mm above the mounting surface) Mechanical Life (X and Y axis) 7.500.000 cycles Weight (handle include) 0,900 Kg

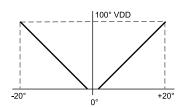
Number of shocks 1350 each axis

• C Registered mark for industrial environment with reference to the compatibility. European norms:

- IEC 61000-4-3 "Electromagnetic immunity"
- EN6550022 "Electromagnetic emissions"
- Product in accordance with RoHS 2011/65/UE Europe Directive.

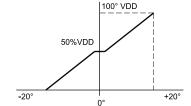
Connectors and electrical contacts included in the fourniture.

POTENTIOMETER OUTPUT AXIS X,Y



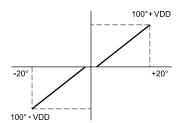
In order to obtain the output signal from the joystick as indicated in the diagram over it is necessary:

- for the X axis output signal, connect the pin 3 and 5 of the AMP 16 way connector at +VDD, and connect the pin 6 of the AMP 16 way connector at 0V.
- for the Y axis output signal, connect the pin 9 and 11 of the AMP 16 way connector at +VDD, and connect the pin 12 of the AMP 16 way connector at 0V.



In order to obtain the output signal from the joystick as indicated in the diagram over it is necessary:

- for the X axis output signal, connect the pin 3 of the AMP 16 way connector at 0V, and connect the pin 5 of the AMP 16 way connector at +VDD.
- for the Y axis output signal, connect the pin 9 of the AMP 16 way connector at 0V, and connect the pin 11 of the AMP 16 way connector at +VDD.



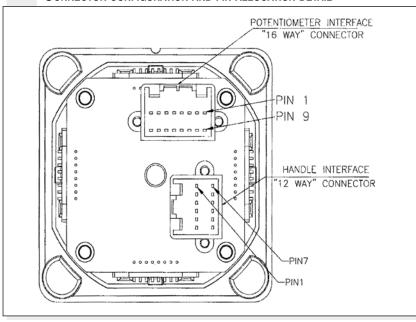
In order to obtain the output signal from the joystick as indicated in the diagram over it is necessary:

- for the X axis output signal, connect the pin 3 of the AMP 16 way connector at -VDD, and connect the pin 5 of the AMP 16 way connector at +VDD.
- for the Y axis output signal, connect the pin 9 of the AMP 16 way conector at -VDD, and connect the pin 11 of the AMP 16 way connector at +VDD.



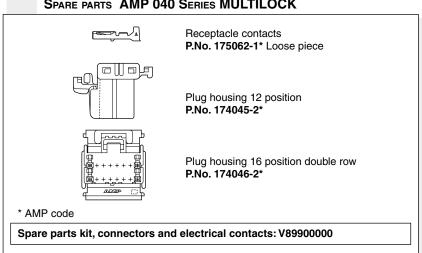
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CONNECTOR CONFIGURATION AND PIN ALLOCATION DETAIL



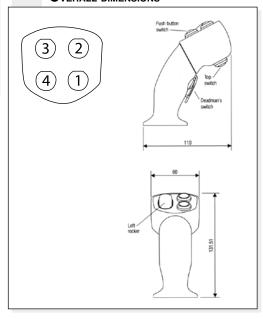
16 WAY PRIMARY POTENTIOMETER CONNECTIONS		
AMP		Pin allocation description
		Single potentiometer per axis
1	Υ	Switch track forward
2	Χ	Switch track centre on
3	Χ	Pot track left
4	Χ	Pot track signal
5	Χ	Pot track right
6	Χ	Pot track centre tap
7	Χ	Switch track common
8	Χ	Switch track left
9	Υ	Pot track back
10	Υ	Pot track signal
11	Υ	Pot track forward
12	Υ	Pot track centre tap
13	Υ	Switch track common
14	Υ	Switch track back
15	Х	Switch track right
16	Υ	Switch track centre on

SPARE PARTS AMP 040 SERIES MULTILOCK

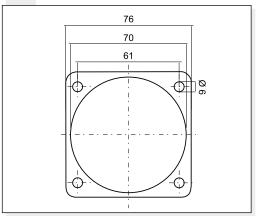


12 WAY HANDLE CONNECTIONS **AMP** Pin allocation description Switch 4 - contact N/O 2 Switch 3 - contact N/O Switch 2 - contact N/O 3 4 Switch 1 - contact N/O 5 Switch 5 - contact N/O 8 Operator present trigger switch 11 Switch track common 12 Operator present trigger switch

OVERALL DIMENSIONS



HANDLE ADAPTER PLATE



ANALOGUE JOYSTICK CONTROLLERS

