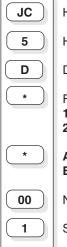
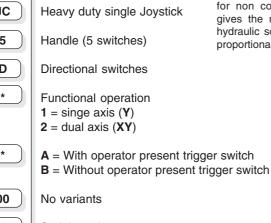


JC5D...

# **O**RDERING CODE





Serial number

JC.5.D... 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 microswitches 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 Aron electronic control unit for non contemporary movements gives the maximum advantage for hydraulic solutions controlled with a proportional valve.

**Electrical features** 

Potentiometer resistance	1.4 ÷ 2.2 KΩ
Max. supply voltage	VDD = 32V DC
Max. supply voltage X and Y pot	0 - 100% VDD
Max. output current	5 mA
<b>Directional switches</b>	VCC = 32V DC
Maximum supply voltage	200 mA
Max. output current	Resistive load
Mechanical featuresMechanical angle± 20°Maximum operating load390 N(Measured 130 mm above the mounting surface)Mechanical Life (X and Y axis)7.500.000 cyclesWeight (handle include)0,900 Kg	
	-40°C ÷ +80°C IP65 Type ½ sine 6ms s 1350 each axis

**MACHINER** 

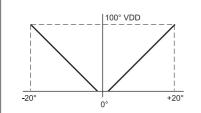
E Registered mark for industrial environment with reference to the compatibility. European norms:

- IEC 61000-4-3 "Electromagnetic immunity"
- EN6550022 "Electromagnetic emissions"

• Product in accordance with RoHS 2002/95/CE Europe Directive.

### Connectors and electrical contacts included in the fourniture.

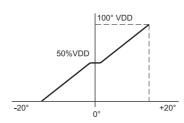
### POTENTIOMETER OUTPUT AXIS X,Y



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.

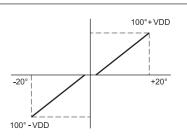
- for the Y axis output signal, connect the pin 9 and 11 of the AMP 16 way connector at +VDD, and connect the pin 12 of the AMP 16 way connector at 0V.



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:

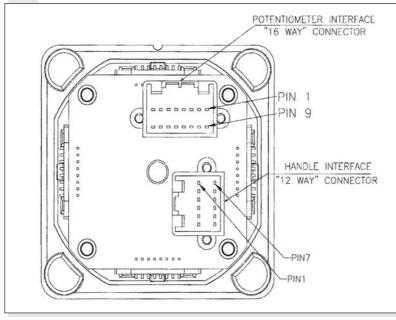
- for the X axis output signal, connect the pin 3 of the AMP 16 way connector at -VDD, and connect the pin 5 of the AMP 16 way connector at +VDD.

- 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.

IX • 25



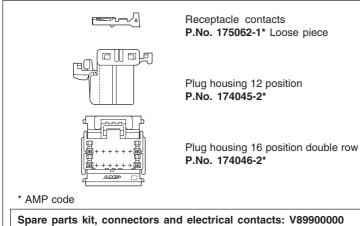
### **C**ONNECTOR CONFIGURATION AND PIN ALLOCATION DETAIL



### **16** WAY PRIMARY POTENTIOMETER CONNECTIONS

AMP		Pin allocation description
		Single potentiometer per axis
1	Υ	Switch track forward
2	Х	Switch track centre on
3	Х	Pot track left
4	Х	Pot track signal
5	Х	Pot track right
6	Х	Pot track centre tap
7	Х	Switch track common
8	Х	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

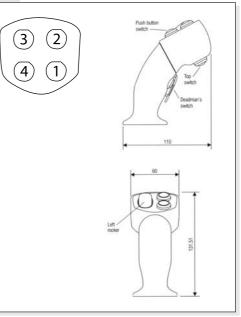
## SPARE PARTS AMP 040 SERIES MULTILOCK



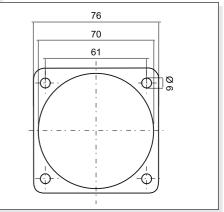
12 WAY HANDLE CONNECTIONS		
	Pin allocation descript	

AMP	Pin allocation description	
1	Switch 4 - contact N/O	
2	Switch 3 - contact N/O	
3	Switch 2 - contact N/O	
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



### **A**NALOGUE JOYSTICK CONTROLLERS

