



JC3D...

#### **ORDERING CODE**

JC

Heavy duty single Joystick



Handle (3 switches)



Directional switches



Functional operation singe axis (Y)



With operator present trigger switch

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00 = No variants

**GD** = With silicon rubber protection on the switches handle

1

Serial number

# JC3D... HEAVY DUTY SINGLE JOYSTICK BASE

This is a rugged joystick with single axis Y potentiometer and ergonomic handle. The joystick has a spring return lever for center position. 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 Y axis. The handle has 3 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** 

Potentiometer resistance  $1.4 \div 2.2 \text{ K}\Omega$ Max. supply voltage VDD = 32V DC Max. supply voltage Y pot 0 - 100% VDD Max. output current 5 mA

**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 (Y axis) 7.500.000 cycles Weight (handle include) 0,900 Kg

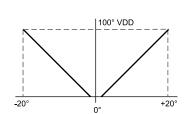
Ambient operating temperature  $-40^{\circ}\text{C} \div +80^{\circ}\text{C}$ Protection according to DIN IP65 Shocks Level 20G Type ½ sine 6ms Number of shocks 1350 per axis

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

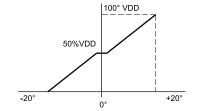
- IEC 61000-4-3 "Electromagnetic immunity"
- EN6550022 "Electromagnetic emissions"
- Product in accordance with RoHS 2011/65/UE Europe Directive.

Connectors and electrical contacts included in the fourniture.

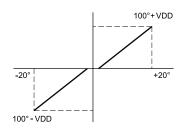
### POTENTIOMETER OUTPUT AXIS Y



In order to obtain the Y axis output signal from the joystick as indicated in the diagram over it is necessary to connect the pin 9 and 11 of the AMP 16 way connector at +VDD, and to connect the pin 12 of the AMP 16 way connector at 0V.



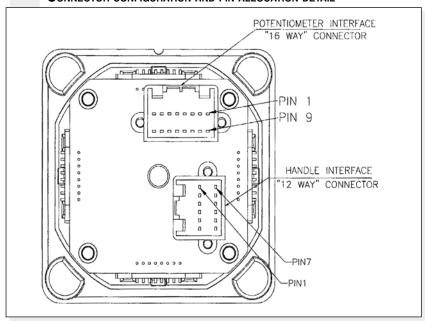
IIn order to obtain the Y axis output signal from the joystick as indicated in the diagram over it is necessary to connect the pin 9 of the AMP 16 way connector at 0V, and to connect the pin 11 of the AMP 16 way connector at +VDD.



In order to obtain the Y axis output signal from the joystick as indicated in the diagram over it is necessary to connect the pin 9 of the AMP 16 way conector at -VDD, and to connect the pin 11 of the AMP 16 way connector at +VDD.

# JC3D.... HEAVY DUTY SINGLE JOYSTICK BASE

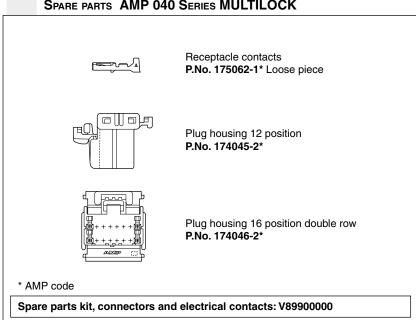
#### **C**ONNECTOR CONFIGURATION AND PIN ALLOCATION DETAIL



## FROM THE 16 WAY PRIMARY POTENTIOMETER CONNECTIONS SINGLE POTENTIOMETER PER Y AXIS

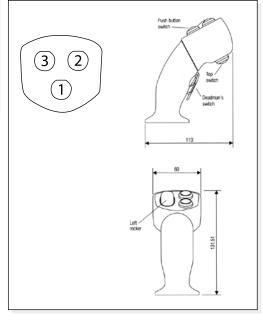
AMP		Pin allocation description
1	Υ	Switch track forward
9	Υ	Pot track back
10	Υ	Pot track signal
11	Υ	Pot track forward
12	Υ	Pot track centre tap
13	Υ	Switch track common
14	Υ	Switch track back
16	Υ	Switch track centre on

## SPARE PARTS AMP 040 SERIES MULTILOCK

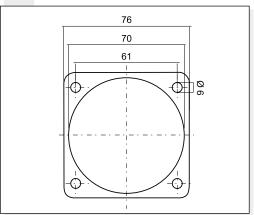


#### 12 WAY HANDLE CONNECTIONS AMP Pin allocation description 2 Switch 3 - contact N/O 3 Switch 2 - contact N/O 4 Switch 1 - contact N/O 8 Operator present trigger switch 11 Switch track common 12 Operator present trigger switch

## **OVERALL DIMENSIONS**



# **H**ANDLE ADAPTER PLATE



# **A**NALOGUE JOYSTICK CONTROLLERS

