

Three-axis Analog Joystick Interface, JOY3- 01- 01

25-pin DB-25, Male Connector

Cable Length = 5.5 ft (168 cm)

PIN	NAME	DESCRIPTION
1	ANALOG-X	Analog-X, Wiper of 5 KOhm Potentiometer
2	ANALOG-Y	Analog-Y, Wiper of 5 KOhm Potentiometer
3	HIGH-SPEED	Upper Right Hand Switch, Normally Open
4	MEDIUM-SPEED	Middle Right Hand Switch, Normally Open
5	LOW-SPEED	Lower Right Hand Switch, Normally Open
6	Z-SELECT	Lower Left Hand Switch, Normally Open
7		Not Connected
8		Not Connected
9		Not Connected
10		Not Connected
11		Not Connected
12		Not Connected
13		Not Connected
14		Not Connected
15	ANALOG-Z	Analog-Z, Wiper of 5 KOhm Potentiometer
16	GND	System Ground
17	GND	System Ground
18	GND	System Ground
19	+5 VDC	+5 VDC
20	+5 VDC	+5 VDC
21	+5 VDC	+5 VDC
22		Not Connected
23		Not Connected
24		Not Connected



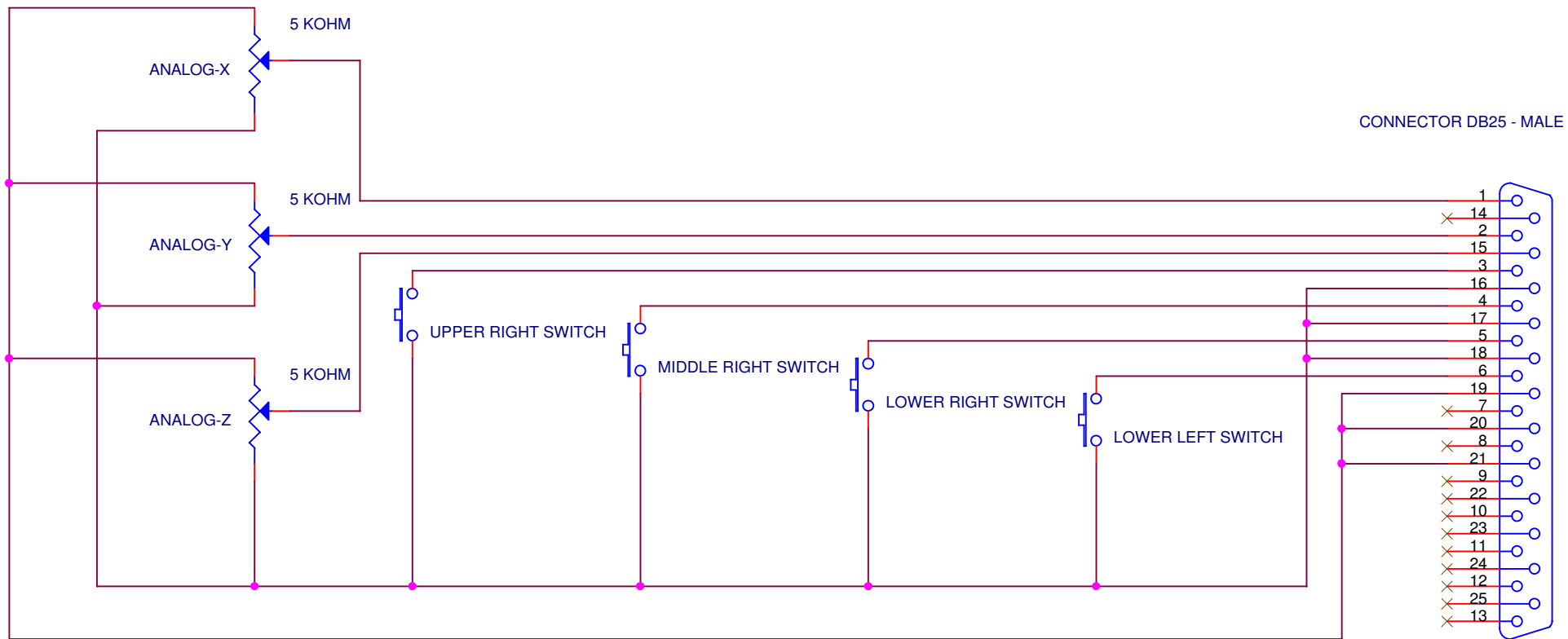
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JOY-3-01 CONNECTION DIAGRAM

http://www.oesincorp.com/three_axis_joystick.htm

- 6) The maximum deflection voltage is about +/- 30% of the voltage applied to pins 19, 20 and 21 respect to 16, 17 and 18 for ANALOG-Z.
- 5) The maximum deflection voltage is about +/- 20% of the voltage applied to pins 19, 20 and 21 respect to 16, 17 and 18 for ANALOG-X and ANALOG-Y.
- 4) The center voltage is about half of the of the voltage applied to pins 19, 20 and 21 respect to 16, 17 and 18 for ANALOG-Z. This voltage decreases when the knob is turned CW.
- 3) The center voltage is about half of the of the voltage applied to pins 19, 20 and 21 respect to 16, 17 and 18 for ANALOG-Y. This voltage decreases when the joystick is tilted to the up.
- 2) The center voltage is about half of the of the voltage applied to pins 19, 20 and 21 respect to 16, 17 and 18 for ANALOG-X. This voltage decreases when the joystick is tilted to the right.
- 1) The switches are normally open.

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