JC 200 MULTI-AXIS INDUCTIVE JOYSTICK



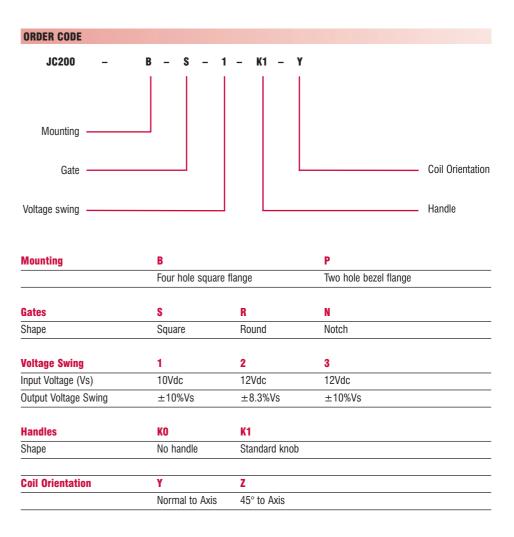
JC200-B with K1 handle

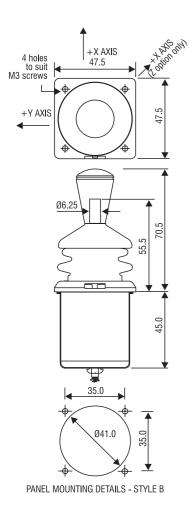
A compact, inductive joystick with a life in excess of 15 million operations and EMC immunity of 50V/m, the JC200 offers fingertip control in two axes.

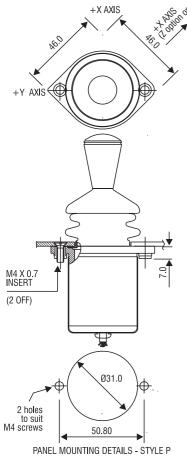
Designed for use with an electronic controller, the inductive circuit inside the JC200 generates analogue signals proportional to the distance over which the handle is moved in either axis. This output is configured to provide signals for fault detection circuits within the controller, whilst a center tap provides an accurate voltage reference for the center position. The inductive circuit can be mounted at 45° to the normal axis to provide reference signals for dual channel motor controllers.

The output voltage range can be further restricted in one or more directions, by the selection of the correct gate geometry. This can be used to limit, for example, the maximum speed of a vehicle when reversing around a corner.

Typical applications include the control of wheelchairs, fork lift trucks and agricultural machinery.







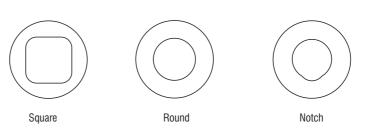
All dimensions in mm

Specifications

Mechanical		
Breakout Force	1N 7	Full deflection, 50mm above
Operating Force	2N	flange with square gate
Maximum Applied Force	50N	hange with square gate
	. 400	
Mechanical Angle of Movement	±18° >15 million	On axis with square gate fitted
Expected Life (Operations)		With 1/d bandle antion
Mass	120g	With K1 handle option
Environmental		
Operating Temperature Range	-25°C to +65°C	
Storage Temperature Range	-40°C to +70°C	
Environmental Sealing Above the Flange	IP66	BSEN60529
EMC Immunity Level	50V/m	10MHz to 1GHz, 1KHz 80%
		sine wave modulation
ESD Immunity Level	±25kV	10 discharges through air
Electrical		
Supply Voltage Range (Vs)	0-8V, 0-10V or 0-12v	Maximum 14Vdc
Output Impedance	1k8Ω	
Output Voltage Swing	$\pm 10\%$ Vs, $\pm 8.3\%$ Vs with respect to the center tap	
Error Signal	>±25%Vs	
Center Tap Voltage	50%Vs ±1%	
Center Tap Impedance	0.4kΩ	
Return to Center Voltage	± 0.03 Vs or 30mV, whichever is less	
Resolution	Infinite	
Connection	Flying Leads 200mm long (14 x 0.12 pvc)	
Termination Details		
Description	Wire color	
Positive voltage supply	Red	
Center tap	Green	
Zero voltage supply	Black	
X-axis output voltage signal	Blue	
Y-axis output voltage signal	Yellow	

 $\ensuremath{\textbf{Note:}}$ Output signals should be referenced to the center tap voltage

Gate Options



Alternative gate geometery can be developed to meet the needs of your potential application

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