

Data Sheet

Dual Axis Fingertip Joystick JS2000



Mobile Machine Management

The JS2000 dual axis fingertip joystick is an element of the flexible, powerful, expandable, and affordable joystick family of mobile machine management products.

The JS2000 has been specially designed to provide two and three axis proportional control in a compact package that meets the harsh operating requirements of today's mobile machine market.

Ergonomic and Precise Operation

Developed for applications where ergonomics and precise proportional control are required, the JS2000's compact design provides smooth fingertip control with low operating forces that minimize repetitive stresses and operator fatigue.

Compact Design

The compact design of the JS2000 is ideal for mounting in low clearance locations such as seating armrests and chest packs.

Reliability

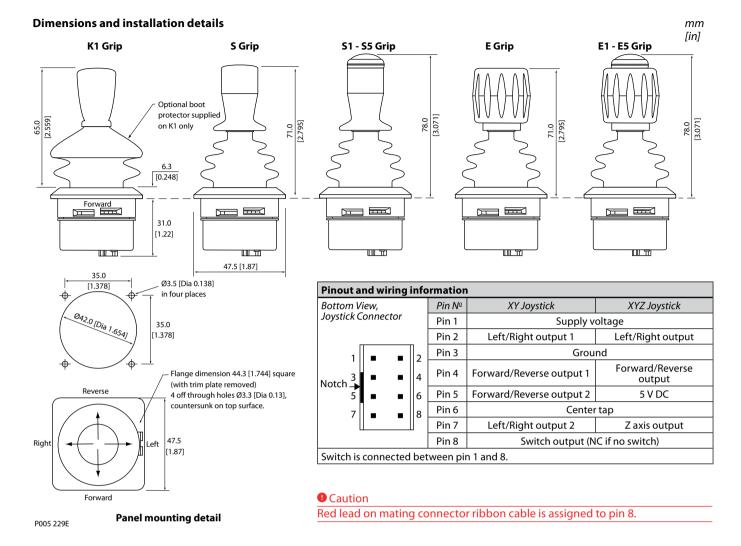
In applications where safety and long maintenance free life is required, the contactless and redundant Hall Effect sensing design provides security and reliability in an easy to operate device.

Features and options:

- · Contactless hall effect sensing
- Redundant sensors
- Single or dual axis
- Multiple gate options
- Spring return to center
- Compact size
- Low operating forces

- · Easy installation
- Operating life > 15 million cycles
- Output: 10 to 90% Vs
- IP 65 environmental sealing above panel
- CE approved
- Multiple grip options, including Z-axis twist





Specifications

Electrical characteristics		
Sensor type	Hall effect	
Resolution	Infinite	
Supply voltage (Vs)	5 ± 0.5 V DC regulated	
Output voltage	10 to 90% nominal of Vs	
Current consumption	17.5 mA nominal	

Environmental parameters		
Operating temperature	-25 °C to 70 °C [-77 °F to 158 °F]	
Storage temperature	-40 °C to 70 °C [-104 °F to 158 °F]	
Protection	IP 65 BS EN 60529	

Mechanical characteristics		
Lever mechanical angle	20° forward/reverse (single axis only)	
Lever operating force	2 N [0.45 lbf] nominal (full deflection)	
XY axes expected life	15 million cycles	
Z axis	5 million cycles	
Weight (without grip)	0.090 kg [0.198 lb]	

Mating connector assemblies		
Туре	Danfoss ordering number	
Connector with 400 mm [15.75 in] ribbon cable	10102031	

See Danfoss publication *JS2000 Dual Axis Fingertip Joystick, Technical Information* for more information. Danfoss product literature is online at www.danfoss.com.

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