

JS1000 Joystick Base

Mobile Machine Management

The JS1000 joystick base is an element of the flexible, powerful, expandable, and affordable joystick family of mobile machine management products. Sauer-Danfoss has developed the JS1000 to meet the harsh operating requirements of today's mobile machine market. Combine the JS1000 joystick base with a standard or custom grip to configure a complete joystick solution.

Rugged Compact Design

The unique design of the JS1000 joystick base incorporates contactless Hall effect sensors into a simple, compact and rugged mechanical construction for the most demanding applications. It is ideally suited for low clearance and armrest mounting, and yet withstands the most punishing environments.

Environmental Sealing

The JS1000 joystick base is designed and tested for use in harsh out of cab environments. It meets IP-67 environmental protection above the panel mounting and IP-67 below the panel mount if the vent plug is installed. The vent plug is a base option. If it is not ordered, the base is not protected from below-panel particulate and moisture ingress.

Local Address:



JS1000, available with multiple grip configurations.

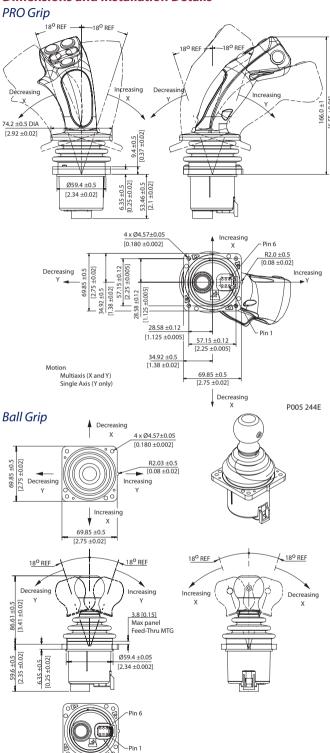
Features and Options

- Non-contacting hall effect sensing
- Single or dual axis
- X Y axis guided or non-guided feel
- Spring return to center
- Choice of two centering spring forces
- Operating life > 10 million cycles per axis
- Two output options:
 - 0.5 to 4.5 Vdc
 - CAN 2.0 B, J1939 protocol
- IP-67 environmental sealing above panel (grip dependent)
- IP-67 environmental sealing below panel with vent plug installed (base dependent)
- Integrated 6 pin Deutsch® DTM connector
- Multiple grip options:
 - Ball grip
 - Grip with proportional rocker switch
 - Grip with proportional banana switch
 - PRO style ergonomic grip, which offers a wide variety of configurable switch and proportional rocker functions
 - Custom designed grips to meet specific user requirements

See Sauer-Danfoss publication *JS1000, JS6000 Joystick Grips Technical Information*, **520L0872** for more information.



Dimensions and Installation Details



Specifications

Electrical Characteristics

Sensor type	Hall effect	
Resolution	Infinite	
Supply voltage (Vs)	Analog output: 5 ± 0.5 Vdc	
	CAN: 9 to 36 Vdc	
Output	Analog: 0.5 to 4.5 Vdc nominal	
	CAN: 2.0 B, J1939 protocol	
Current consumption 25 mA		
	PRO grip = 150 mA	

Mechanical Characteristics

Lever mechanical angle	±18° on axis	
Operating life	> 10 million cycles	
Vibration	5 Gs RMS	
Shock	50 Gs	
Weight	0.38 kg [0.838 lb]	
(base without grip)		

Environmental Parameters

Operating temperature	-40°C to 80°C [-40°F to 176°F]	
Storage temperature	-40°C to 85°C [-40°F to 185°F]	
Protection Above panel ball grip: IP-67		
	Below panel: IP-67 with vent plug installed	
EMI/RFI rating	100 V/m	

Pinout and Wiring Information

Pin	CAN	Analog
Pin 1	Ground	Ground
Pin 2	Power	Power
Pin 3	CAN high	X output signal
Pin 4	CAN low	Y ouput signal
Pin 5	CAN shield	Rocker switch
Pin 6	No connection	No connection

Mating Connector Assemblies

Туре	Sauer-Danfoss ordering number
6 pin Deutsch® connector bag assembly	10101551
6 pin connector with 400 mm [15.75 in] leads	10101557

Grip mounting dimensions in millimeters [inches].

Mating connector Deutsch® DTM06-6S

Comprehensive technical information: *JS1000 Joystick Base Technical Information*, **520L0826**Sauer-Danfoss product literature is online at: www.sauer-danfoss.com