



## JS6000 Joystick Base

### Mobile Machine Management

The JS6000 joystick base is an element of the flexible, powerful, expandable, and affordable joystick family of mobile machine management products. The JS6000 has been specially developed to meet the harsh operating requirements of today's mobile machine market. Combine the JS6000 joystick base with a standard or custom grip to configure a complete joystick solution.

### Versatile Design

The JS6000 joystick base is available with either contactless Hall effect sensors or long-life potentiometer sensors to meet the specific requirements of your most demanding applications.

### Safety Critical

Hall effect sensor or potentiometer sensor options are both offered with single or dual sensors on each axis for redundancy in safety critical systems. Additional security can be added with optional mechanical neutral switches and an operator presence trigger switch.



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### Features

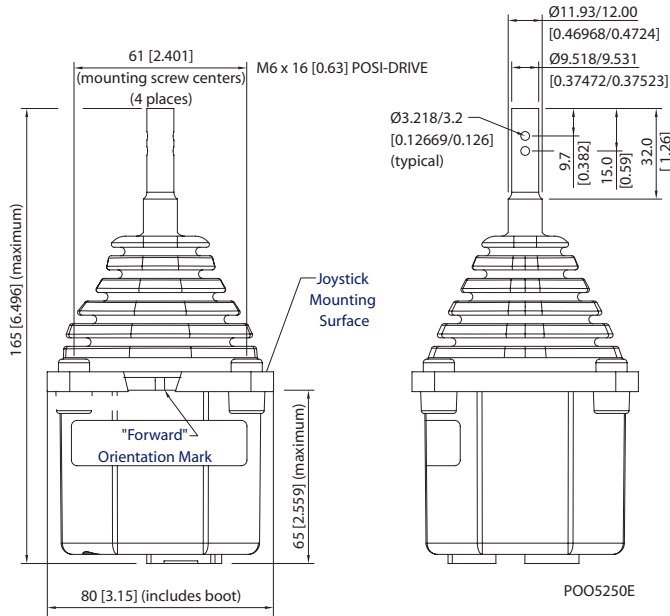
- Hall effect or long-life potentiometer position sensing
- Redundant sensors
- Single or dual axis
- Mechanical neutral switches
- Three centering spring forces
- Two output options:
  - Analog
  - CAN 2.0 B, J1939 protocol
- Operating life:
  - Potentiometer: > 7.5 million cycles
  - Hall effect: > 15 million cycles
- IP 66 environmental sealing – grip dependent
- Integrated 6 pin Deutsch® DTM connector
- Multiple grip options:
  - HKN – plain knob
  - MG – with operator trigger and hand rest
  - A – configurable ergonomic
  - No grip

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

Local Address:

## Dimensions and Installation Details

Grip Dimensions in Millimeters [Inches].



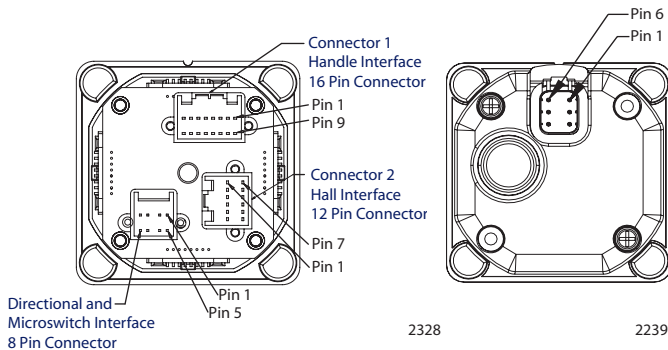
## Specifications

### Electrical Characteristics

<b>Sensor Type</b>	Long-life potentiometer Hall effect
<b>Resolution</b>	Infinite
<b>Supply Voltage (Vs)</b>	Potentiometer: 9 to 36 Vdc Hall effect: 5 ± 0.5 Vdc
<b>Output</b>	Analog: 0.5 to 4.5 Vdc nominal CAN: 2.0 B, J1939 protocol
<b>Hall Effect Sensor Current Consumption (Base without Grip)</b>	Hall effect with analog output: 50 mA Hall effect with CAN output: 100 mA

### Mechanical Characteristics

<b>Lever Mechanical Angle</b>	±20°
<b>Lever Operating Force</b>	Low: 4 to 5.5 N [0.899 to 1.236 lbf] Medium: 6 to 8.5 N [1.349 to 1.911 lbf] High: 12 to 19 N [2.698 to 4.271 lbf]
<b>Operating Life</b>	Potentiometer: > 7.5 million cycles Hall effect: > 15 million cycles
<b>Vibration</b>	3 G random sinusoidal
<b>Shock</b>	20 G
<b>Weight (Base without Grip)</b>	0.75 kg [1.653 lb]

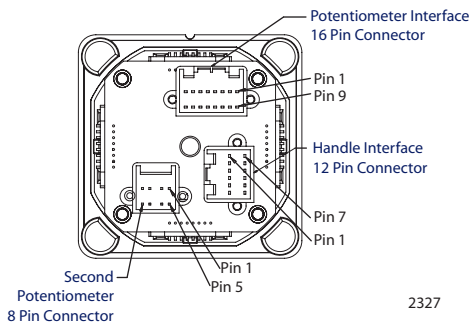


### Environmental Parameters

<b>Operating Temperature</b>	-40°C to 80°C [-40°F to 176°F]
<b>Storage Temperature</b>	-40°C to 85°C [-40°F to 185°F]
<b>Protection</b>	Above panel: IP 66 with plain knob grip Below panel: Refer to manual.*
<b>EMI/RFI Rating</b>	100 V/m

### Pinout and Wiring Information

<b>Sensor and Grip Dependent</b>	For more details refer to manual*
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### Mating Connector Assemblies

Type	Sauer-Danfoss Ordering Number
16 pin AMP® connector bag assembly	10101552
12 pin AMP connector bag assembly	10101020
8 pin AMP connector bag assembly	10101022
12 and 8 pin AMP connector bag assembly	10101023
6 pin Deutsch® connector bag assembly	10101551
16 pin connector with 400 mm [15.75 in] leads	10101556
12 pin connector with 400 mm [15.75 in] leads	10101555
8 pin connector with 400 mm [15.75 in] leads	10101554
6 pin connector with 400 mm [15.75 in] leads	10101557

\* Comprehensive technical information: *JS6000 Joystick Base Technical Information*, **520L0760**  
Sauer-Danfoss product literature is on line at: [www.sauer-danfoss.com](http://www.sauer-danfoss.com)