

## JS Series Electronic Joysticks

- Non-contact Hall sensor design
- Long life  
—Tested to 15 million cycles
- Compact footprint
- Infinite resolution
- Stable null
- Low parts count  
—17 parts



### Innovative Design

JS Series Joysticks use a patented spherical magnetic ball and non-contacting Hall sensors to detect and transmit handle position. This electronic design yields a linear relationship between handle position and signal output, with no hysteresis and a stable null.

### Easy Installation

The joystick's compact footprint makes it an ideal choice for armrest installation. It is factory calibrated and has an integral connector.

### High Reliability

The robust design, including metal construction, high EMI tolerance, and resistance to high pressure washdown ensures trouble free performance in mobile applications. Low part count minimizes points of potential failure.

### Ideal Platform For Custom Grips

The Sauer-Danfoss engineering team includes the human factors, industrial design, and mechanical and electronics expertise required to successfully develop custom joystick grips.

## Data Sheet

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### Standard Models

Standard JS Series Joysticks are available in single or dual axis spring return to center models. Grip options include plain knob or grip with integral analog switch.

### Electronic Modules

JS Joysticks are signal level devices designed to provide inputs to machine microcontrollers.

Sauer-Danfoss has developed two standard joystick interface microcontrollers: The SX for single axis applications and the MC200 for dual axis applications. Standard software personalities allow the user to change maximum valve outputs, characterize joystick performance profiles, ramp rates and valve driver parameters.

### Ordering information:

#### Models

1090332	Dual axis, plain knob grip
1090333	Single axis, plain knob grip
1090334	Dual axis, knob with switch
1090335	Single axis, knob with switch

See BLN-95-9070 for specific hardware information.

Sauer-Danfoss WebGPI™ interface software provides communication to the microcontroller and access to all set-up variables.

### Specifications

- Supply voltage: 5.0 Vdc
- Output: Nominal 0.5 to 4.5 Vdc with 2.5 Vdc null
- Current consumption: 20 mA
- Operating temperature: -40° C to +70° C
- Moisture: IP 65 above panel
- EMI/RFI: 100 V/m

### Related products:

- Mating connector assembly: K27378
- Mounting collar assembly (for panel top mounted devices): K27357
- MC200, 100 mA EDC outputs: 1090449
- MC200, 240 mA EDC outputs: 1090450
- MC200, 2 A proportional outputs: 1090451
- SX, 100 mA EDC outputs: 1090367
- SX, 240 mA EDC outputs: 1090362
- SX, 2 A proportional outputs: 1090368
- WebGPI™ interface software: 1090381
- MC200, 2-axis set-up files: 1090505
- SX, single axis set-up files: 1090521