

JSM Series Joystick

JSM Series Joystick

The Sure Grip "JSM" Series Electronic Joystick is our second generation joystick, which incorporates the newest Hall sensor technology and advanced internal wire configuration. With all the electronics now relocated in the cap, it improves serviceability and allows us to offer CAN, Proportional, Switched, USB and PWM output options in both single and dual axis spring-return-to-center or friction hold configurations.

The joystick can be configured with our JE, LE, KE and NE control grips. For other options, see the joystick ordering guide.

Electronics

The "JSM" Series joystick incorporates Hall sensor technology, which provides a linear output of the attached handle position. This sensing technology is designed to perform consistency within harsh environments that otherwise would not be feasible to support with mechanical sensing solutions such as potentiometers.

Features:

- · Long life -tested to 20 million operations
- Rugged design
- · Proportional and Switched outputs
- Operating temperature: -40°C to +85°C
- · Sealing up to IP67 (handle dependent)
- Fully sealed and encapsulated electronics
- Supports all Sure Grip handles (best suited for our JE, LE, KE, NE)

Specifications are subject to change without notice



SUREGRIPCONTROLS.COM 1-800-831-2278 SALES@SUREGRIPCONTROLS.COM



Electrical Specifications

Proportional Joystick	Min	Тур	Max	Units
Supply Voltage	4.9	5.0	5.1	Vdc
Supply Current	8	10	12	mA
Output Voltage Low	0.45	0.5	0.7	Vdc
Output Voltage Center	2.3	2.5	2.7	Vdc
Output Voltage High	4.3	4.5	4.55	Vdc
PWM Joystick	Min	Тур	Max	Units
Supply Voltage	10	-	32	Vdo
Supply Current	-	-	10	А
Number of Outputs	-	4	-	-
Current per Outlet	-	-	2.5	A
Number of Aux Outputs	-	2	-	-
Duty Cycle	5	80	99	%
Frequency	33	200	400	Hz
Switched Joystick	Min	Тур	Max	Units
Supply Voltage (Vs)	10	-	32	Vdo
Number of Outlets	-	4	-	-
Output Voltage	-	-	Vs	Vdc
Current per Output	-	-	2.5	А
CANbus J1939 Joystick	Refer to Doc. # 550.0067			

Mechanical Specifications

Travel	+/- 20° (on Axis)		
Life Expectancy	>5 million cycles		
Functions	Spring Return to Center / Friction Hold		
Operating Force	1-5 lbs.		

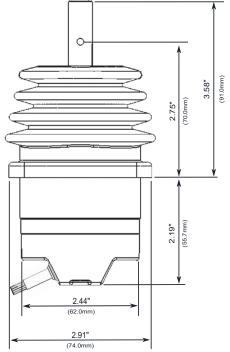
Environmental Specifications

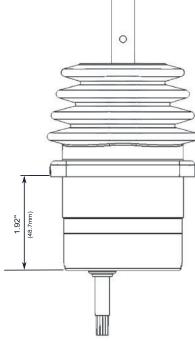
Operating Temperature	- 40° to +85°C	
Sealing	Up to IP67 (handle dependant)	

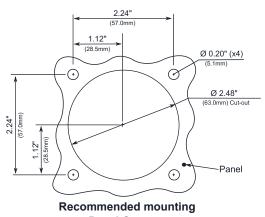
SUREGRIPCONTROLS.COM 1-800-831-2278 SALES@SUREGRIPCONTROLS.COM



Dimensions

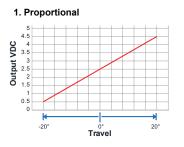


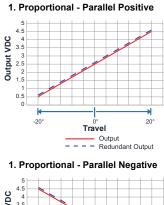


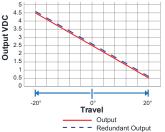


Panel Cut-out.

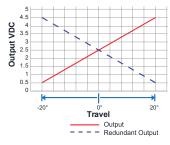
Output Graphs

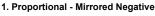


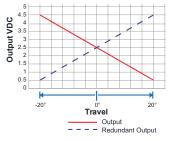




1. Proportional - Mirrored Positive







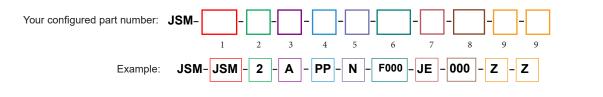
SUREGRIPCONTROLS.COM 1-800-831-2278 SALES@SUREGRIPCONTROLS.COM



Ordering Guide

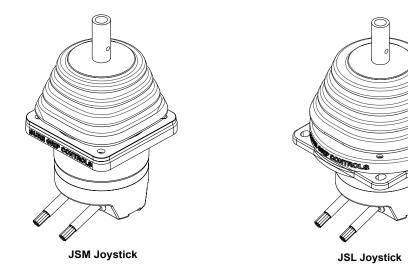
Order Instructions:

- 1. Each box has a color and number, which corresponds to joystick options below. Please review each option, as this will help you with choosing your part number. (Refer to our technical guides for more information on product options)
- 2. If you require a handle please look at handle ordering guides.
- 3. If a desired joystick option is not available contact a sales representative to discuss if there are alternative solutions for your application.
- 4. Enter your configured part number in the empty boxes provided below and contact a friendly Sure Grip sales representative to place your order.



1. Joystick Model JSM - Medium Size JSL - Large Size 2. Axis Options 1 - One Axis 2 - Two Axis	4. Output Direction NN - Strandard PP - Parallel Postive* MP - Mirror Postive* PN - Parallel Negative* MN - Mirror Negative*	6. Features NNNN - No Options F000 - Friction Hold L000 - Latch X Positive 0L00 - Latch X Negative 00L0 - Latch Y Positive 000L - Latch Y Negative	8. Wire Length Options xxx Inches 9. Electronics #1 and #2 N - None A - Dual Danfoss DA2 B - Caterpillar Interface DA2C2
3. Output Options A - Analog R - Analog Redundant* C - CAN P - PWM S - Switched H - Analog and Switched D - PVG U - USB	5. Gate Options N - None X- X Axis Y - Y Axis D - Y Axis Center Detent Z - Z Gate C - Cross Gate	7. Handle Options NN - No Handle JE - JE Handle LE - LE Handle KE - Large Knob NE - Small Knob	C - Diode - Diverter Protection DPd D - Power Supply PS5 5VDC E - Single Driver Board SDB *Refer to Control Electronics on website for more information

Please note the diffence between the JSM and JSL Joysticks. Examples below



SUREGRIPCONTROLS.COM 1-800-831-2278 SALES@SUREGRIPCONTROLS.COM