

JSL Series Joystick

JSL Series Joystick

The Sure Grip "JSL" 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, 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 more options, see ordering guide.

Gimbal Mounting System

The "JSL" joystick also features our innovative "Gimbal Mounting" system that allows the orientation for the most comfortable operating position.

The spherical body of the joystick is mounted within a two-piece patented bracket that permits up to 20 degrees of adjustment in any direction with 360 degrees rotation adjustment. This is accomplished using nothing more than a simple allen wrench.

Electronics

The "JSL" 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:

- Adjustable Gimbal Mounting system
- · 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

DOC #: 550.0128.2020.12.17



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

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

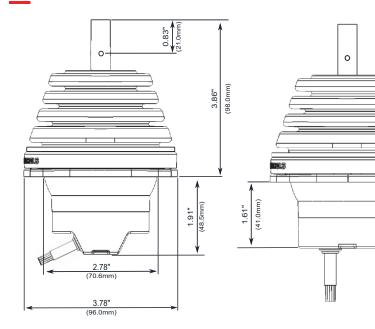
Environmental Specifications

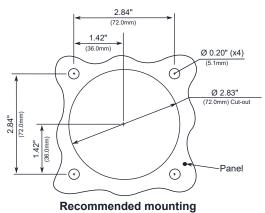
Operating Temperature	- 40° to +85°C	
Sealing	Up to IP67 (handle dependant)	

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



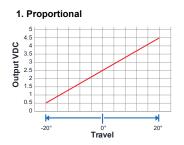
Dimensions

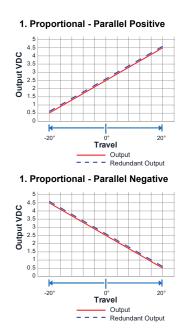


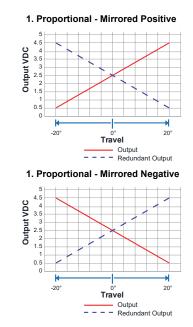


Panel Cut-out.

Output Graphs







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

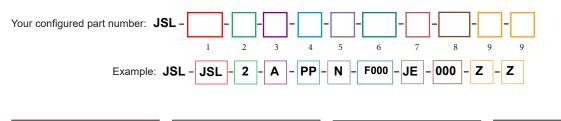
DOC #: 550.0128.2020.12.17



Ordering Guide

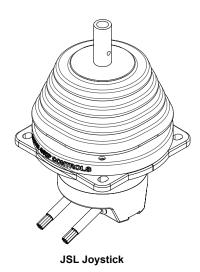
Order Instructions:

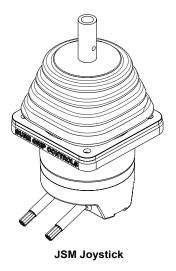
- 1. Each box has a color and number, which corresponds to joystick options below. Please review each option, as this will help you with choosing your part number. (Refer to our technical guides for more information on product options)
- 2. If you require a handle please look at handle ordering guides.
- 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	4. Output Direction	6. Features	8. Wire Length Options
JSM - Medium Size JSL - Large Size	NN - Strandard PP - Parallel Postive*	NNNN - No Options F000 - Friction Hold L000 - Latch X Positive	xxx Inches
2. Axis Options	MP - Mirror Postive*	0L00 - Latch X Negative	9. Electronics #1 and #2
1 - One Axis	PN - Parallel Negative*	00L0 - Latch Y Positive	N - None
2 - Two Axis	MN - Mirror Negative*		A - Dual Danfoss DA2 B - Caterpillar Interface DA2C2
3. Output Options	5. Gate Options	7. Handle Options	C - Diode - Diverter Protection DPd
A - Analog	N - None	NN - No Handle	D - Power Supply PS5 5VDC
R - Analog Redundant*	X- X Axis	JE - JE Handle	E - Single Driver Board SDB
C - CAN P - PWM	Y - Y Axis	LE - LE Handle	*Refer to Control Electronics on
S - Switched	D - Y Axis Center Detent	KE - Large Knob	website for more information
H - Analog and Switched	Z - Z Gate	NE - Small Knob	
D - PVG U - USB	C - Cross Gate		

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





DOC #: 550.0128.2020.12.17

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