





SAT Series Mini joystick



Features

- Standard delivery time 2-3 weeks
- Proportional contactless hall effect technology
- Single axis thumb controller with elastomer actuator
- Optional paddle wheel handle
- Standard IP67 grade protection above panel

Applications

- Marine winch control
- (Outdoor) control panels
- Material handling equipment
- Scissor lifts
- Agricultural machinery

Description

This single-axis mini thumb controller is based on contactless hall effect technology and comes with a proportional output. It has a standard IP67 above panel seal and the integrated elastomer actuator gives the user an ergonomic feeling. Possible options include a paddle wheel for precision single axis control, combined with its long-life expectancy it is an ideal choice for many industrial control applications. Included in the package are below panel mounting hardware and a 28AWG cable.

Specification

MECHANICAL (X & Y AXIS)	
Angle Of Movement	60° (30° Each Direction)
Expected Cycle Life	2.5 million
Centering	Spring Return
Max. Vertical load	300 N (67.5 lbF)
Max. Horizontal load	178 N (40 lbF*)

* Measured 15.75 mm (0.62") Above Panel Surface, Y Direction

ELECTRICAL	
Sensor type	hall effect
Resolution	12 bit
Supply voltage	5VDC ± 0.01VDC
Output voltage	see options
Return to center voltage	±50mV
Overvoltage max.	20VDC
Reverse polarity max.	-10VDC



Specification

ENVIRONMENTAL	
Operating Temperature	-40°C to 85°C (-40°F to 185°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
IP Sealing Above Flange	IP67
EMC Immunity level	EN61000-4-3 *Compliance to 30A/m
EMC Emissions level	EN61000-6-3
ESD Immunity level	EN61000-4-2 *Compliance to ±15kV/±8kV
Vibration testing	Per SAE J1455 Section 4.9 & MIL-STD810G 514.6
Mechanical shock	Per SAE J1455 Section 4.10 & MIL-STD-202G

*Extended Testing Levels

MOLEX 510210400 CONNECTOR				
PIN	Wire colour	Description		
1	n/a	n/a		
2	yellow	sensor		
3	black	ground		
4	red	power (+5V)		

MATERIALS		
Housing	Mineral & glass filled nylon	
Boot/actuator	Silicone	

IP RATING: IP67 (ABOVE PANEL, ALL CONFIGURATIONS)



254mm (10") CABLE PROVIDED







Mounting Options Dimensions in millimeters (inches).





MOUNTING DIRECTIONS:

- 1. Drop unit into panel cutout.
- 2. Install supplied mounting under Panel until the two hook features snap into place.
- 3. Install 2 mounting screws until they apply adequate pressure onto panel.



MOUNTING PANEL CUTOUT





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The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification. Althen Controls – Your expert partner for customized joystick controllers, footpedals, and position feedback sensors. Althen stands for high quality solutions, flexibility in customization, and is known for its long experience.

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