



Multi-function Joystick Model

S252

Product Features

- Compact proportional analog output joystick
- Single-axis operation with spring return to center
- Miniature size, designed for fingertip or palm control

Market Application

- Game-controller-like appearance
- Japanese aerial work platforms, industrial control boxes, fire trucks



Technical Data

Mechanical Parameters	
Tilting Angle	$\pm 30^\circ$
Operating Force	12~18N
Limit Force	100N
Service Life	Over 2 million cycles
Weight (Base Only)	200g
** Distance from Pivot Point 110 mm	



**Electrical Parameters**

Potentiometer Analog Type	
Supply Voltage	9 ~ 36Vdc
Total Resistance	10 KΩ
Neutral Dead Band Angle	±3°
Max Power	0.2W
Analog / Hall Voltage Type	
Supply Voltage	5.0 ± 0.5Vdc
Supply Current	<12 mA per channel
Midpoint Voltage	2.5±0.1V
Output Linear Error	±3%
Max Overvoltage	20Vdc
Max Reverse Voltage	-10Vdc
Load Resistance	>10KΩ
Environmental Specifications	
Operating Temperature	-30°C ~ +70°C
Storage Temperature	-40°C ~ +85°C
Protection Class	IP65 (Above the mounting panel)





Model Selection Guide

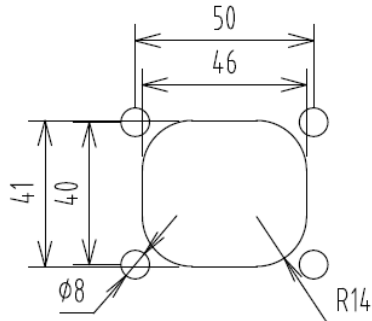
Model No.	S252-①-②-③-④-⑤-⑥-⑦
① Limit	
SS	Single Y-axis operation, spring return
② Spring Force	
L	Initial force 12 N, full-stroke force 18 N
③ Mounting Panel	
50	Mounting hole pitch 50*41 mm
④ Handle Top	
BA	Ball-shaped knob without buttons
⑤ Output Type	
P4C	Potentiometer type, supply voltage ≤ 36 Vdc, 10K Ω 4-pin potentiometer with center tap
H1	Hall type, 5 Vdc supply, output 0.5–2.5–4.5 Vdc
2H1	Redundant Hall type, 5 Vdc supply, output 0.5–2.5–4.5 Vdc
	* Contact our sales team for customized special output solutions
⑤ Direction Microswitch	
S2	Forward & backward micro switches (only for potentiometer output versions)
⑥ Cable Exit	
T	Connector outlet
L	Direct cable outlet, AWG24 wire, standard length 500 mm * Custom connectors available upon consultation with sales staff



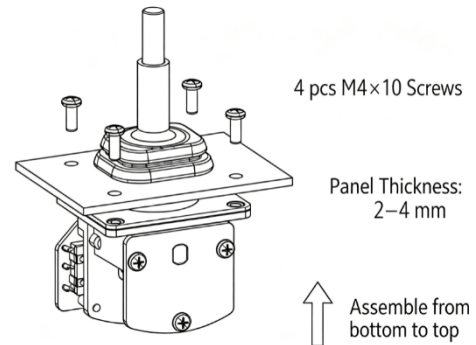


Mounting Panel

50- (Mounting hole pitch 50*41mm)



Installation Diagram



Handle Top Options

BA Top

