



Thumb Joystick

PS251

Product Features

- Single-axis spring return design with Hall signal output
- Exquisite compact structure and long service life
- Miniature size for comfortable thumb operation

Market Application

- Suitable for side-by-side mounting arrangement
- Remote controllers, industrial control boxes, joysticks panels and other equipment



Technical Data

Technical Data	
Tilting Angle	$\pm 20^\circ$
Operating Force	3-8N
Limit Force	30N
Service Life	Over 5 million cycles
Weight (Base Only)	30g
** Distance from Pivot Point 50 mm	



**Electrical Parameters**

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 (Electronic Components)



**Model Selection Guide**

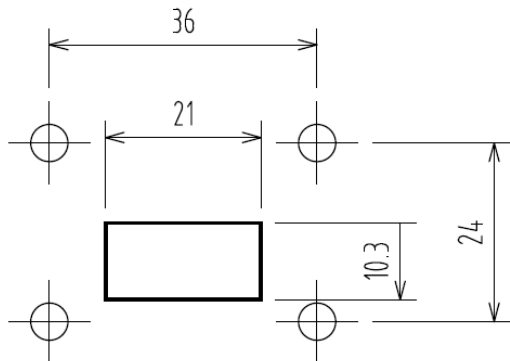
Model No.	PS251-①-②-③-④-⑤-⑥-⑦
① Limit	
SS	Single-axis Y-direction operation with spring return
② Spring Force	
L	Initial force 3 N, full-stroke force 8 N
③ Mounting Pane	
36	Mounting hole pitch 36×24 mm
④ Handle Top	
TS	Teardrop-shaped top without pushbuttons
⑤ Output Type	
H1	Hall sensor, 5 Vdc supply, output 0.5–2.5–4.5 V
H2	Hall sensor, 5 Vdc supply, output 1–2.5–4 V
2H1	Redundant Hall sensor, 5 Vdc supply, output 0.5–2.5–4.5 Vdc (Single-axis only)
	*Please contact our sales staff for customized special output solutions
⑥ Direction Microswitch	
N	Without micro switches
⑦ Cable Exit	
T	Connector outlet
L	Direct cable outlet, AWG24 wire, standard length 500 mm *Custom connectors are available upon consultation with sales team



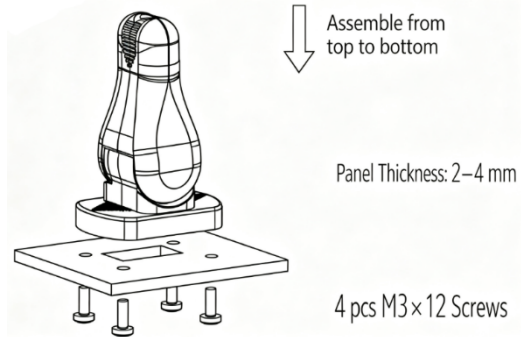


Mounting Panel

36- (Cutout dimension: 36×24 mm)



Installation Diagram



Handle Top Options

TS Top

