



Multi-function Joystick Model

S241

Product Features

- Simple integrated molding structure
- Supports Hall sensor and potentiometer signal output
- Compact layout, stable performance and excellent cost performance

Market Application

- Matching equipment requiring high-cost performance
- Electro-hydraulic control systems for aerial work platforms, fire trucks, rotary drilling rigs, etc.



Technical Data

Mechanical Parameters	
Tilting Angle	$\pm 20^\circ$
Operating Force	18-26N
Limit Force	100N
Service Life	Over 5 million cycles
Weight (Base Only)	270g
** Distance from Pivot Point 170 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
Analog / Modulated Voltage Type	
Supply Voltage	14V dc
Supply Current	<20 mA per channel
Analog / Potentiometer Type	
Supply Voltage	9 ~ 36Vdc
Total Resistance	10 KΩ
Neutral Dead Band Angle	±3°
Max Power	0.2W
Environmental Parameters	
Operating Temperature	-30°C ~ +70°C
Storage Temperature	-40°C ~ +85°C
Protection Class	IP65 (Above mounting panel)





Model Selection Guide

Model No.	S241-①-②-③-④-⑤-⑥-⑦
① Limit	
SS	Single Y-axis operation with spring return
② Spring Force	
L	Initial force 19 N, full-stroke force 26 N
③ Mounting Panel	
00	Mounting hole spacing 66 mm
65	Mounting hole pitch 65×71 mm
④ Handle Top	
TN	Conical grip without top buttons
TB	Conical grip with top button



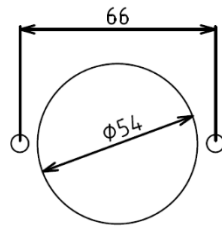


M1B6	Curved grip with enable switch and top rocker switch
M1N6	Curved grip with enable switch and single top pushbutton (latching button optional)
M2B6	Straight grip without enable switch, fitted with top rocker switch
HA92	Curved grip with enable switch and top rocker switch
KHM1	Multi-function expandable grip
	* Contact our sales team for detailed expandable functions
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 Vdc
2H1	Redundant Hall sensor, 5 Vdc supply, output 0.5–2.5–4.5 Vdc
WH1	Hall sensor, 14 Vdc supply, output 0.5–2.5–4.5 Vdc
P10C	Potentiometer type, supply voltage ≤ 36 Vdc, 10K Ω 4-pin potentiometer with center tap
	* Contact our sales team 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 available upon consultation with sales staff

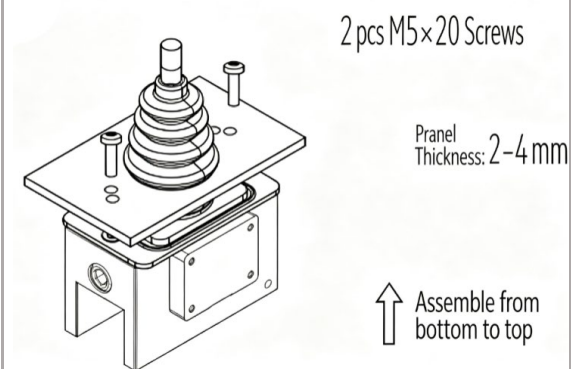
Mounting Panel



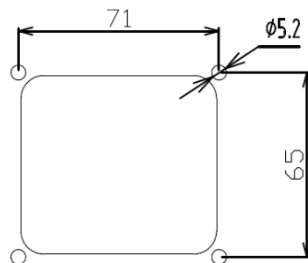
00- ((Hole spacing: 66 mm)



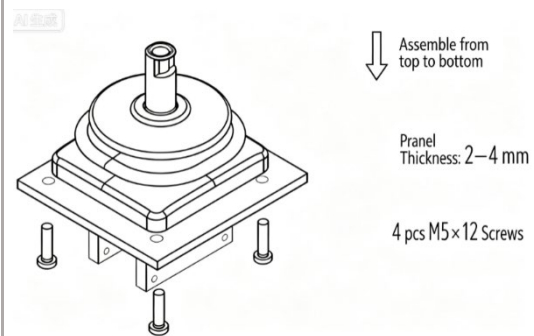
Installation Diagram



65- (Hole spacing: 65*71mm)

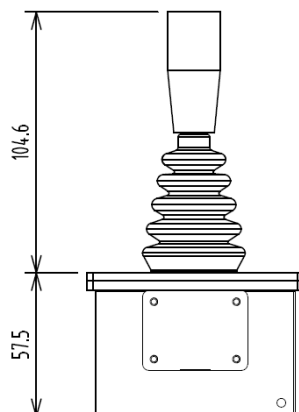


Installation Diagram

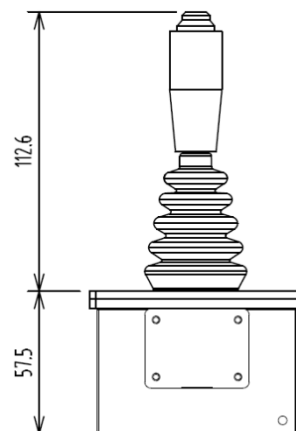


Handle Top Options

TN Top

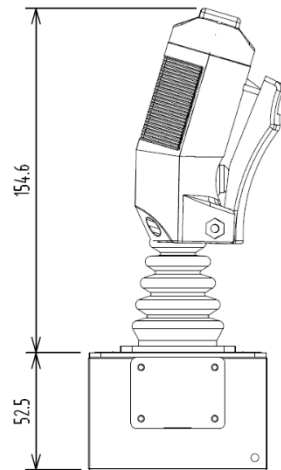


TB Top

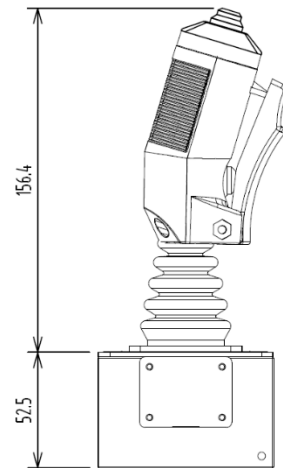




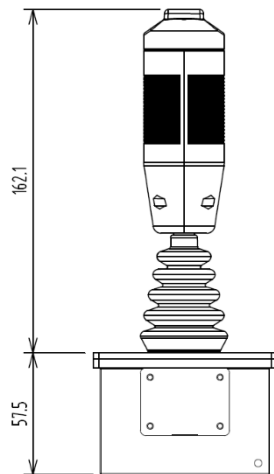
M1B6 Top



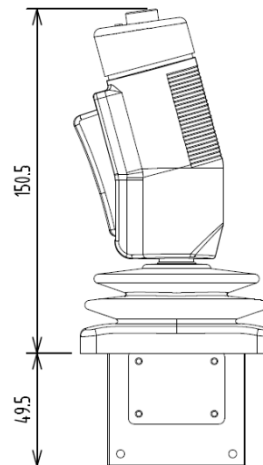
M1N6 Top



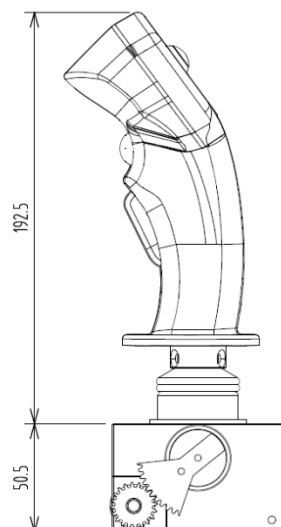
M2B6 Top



HA92 Top



KHM1 Top



KHM1 Top

