SJ9S Series Three Axis Joystick

Product Features

- Based on ergonomic principles, modeling small and operation comfortable.
- Fingertip operation, Spring return.
- three-axis large operating angle in any direction.
- handle top with dual button at most.
- RS232 or USB connector output available.

Application

Typical application on CCTV, Video control equipment, electric wheelchairs and medical equipment.

Technical Information

Electrical data

Power supply	5 ± 0.5 Vdc (standard voltage)
	9~36Vdc (wide voltage)
Maximum supply current	22mA (XY axis)
	33mA (Z axis)
Maximum allowable overload voltage	20Vdc
Reverse maximum allowable voltage load	-10Vdc
resistance	10ΚΩ
Center output voltage	2.5 ± 0.1Vdc
Output linearity tolerance	< ± 4%

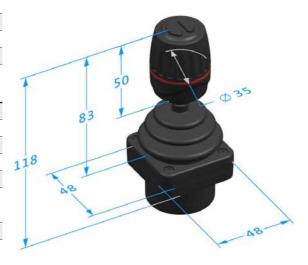
Mechanical features

Travel angle	$\pm 28^{\circ}$ (XY axis); $\pm 42^{\circ}$ (Z axis)	
Operating type	Spring return	
Breakout force	3N	
Operating force(max)	8N	
Maximum allowable force	>300N	
Forestina life	>3Million (XY axis)	
Expecting life	>2Million (Z axis)	
Weight	143.5g	

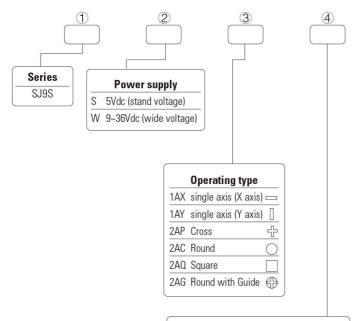
Environmental data

Operating Temperature	-30°C~+70°C	
Storage Temperature	-40°C~+85°C	
Protection level	IP65 (Above the flange)	

Dimensions



Product Configuration



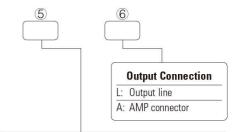
Output signal

H51 hall type, 0.5~2.5~4.5V output voltage

H52 hall type, 0-2.5~5Voutput voltage

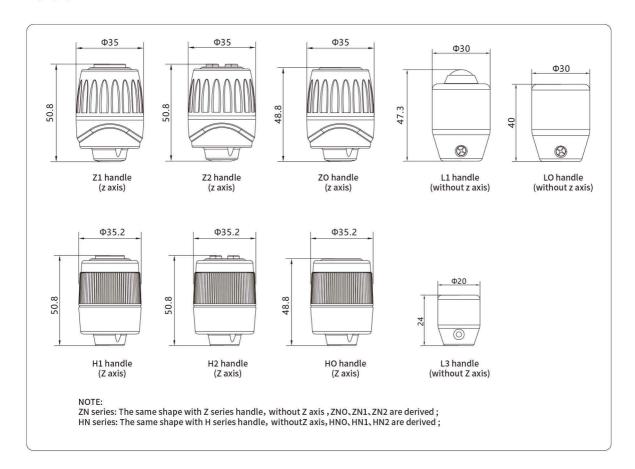
RS232Serial digital signal output

USB USB interface digital signal output

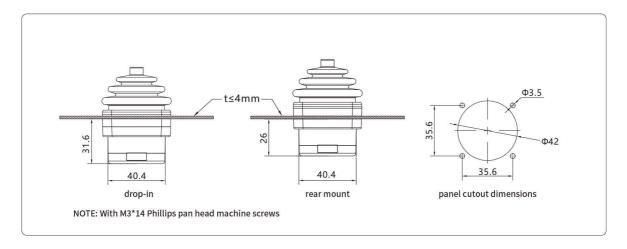


Z0	Z series handle, Z axis, without button
Z1	Z series handle, Z axis, one button
Z2	Z series handle, Z axis, two buttons
ZN0	Z series handle, without Z axis% without button
ZN1	Z series handle, without Z axis, one button
ZN2	Z series handle, without Z axis, two buttons
LO	L series handle, without Z axis, without button
L1	L series handle, without Z axis, one button
L2	L Series handle, without Z axis, two buttons
L3	L3 Series handle, without Z axis, no button
H0	H series handle, Z axis, without button
H1	H series handle, Z axis, one button
H2	H series handle, Z axis, two buttons
HN0	H series handle, without Z axis, without button
HN1	H series handle, without Z axis, one button
HN2	H series handle, without Z axis, two buttons
	ote: Three-axis products only Z series handles and ries handles are available.

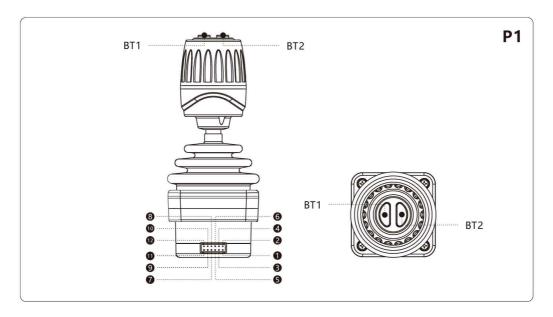
Handle



Product Installation



Electrical Connections



Hall output

8-Pin Connector

Pin	Hall	Colour
1	CND	Black
2	VCC	Red
3	X out	Yellow
4	1	/
5	Y out	Green
6	/	1
7	Z out	Blue
8	/	/
9	BT1	Brown
10	BTcom	White
11	BT2	Purple
12	1	/

Each axis of redundant hall

12-pin connector

Pin	Hall	Colour
1	CND	Black
2	VCC	Red
3	AX out	Yellow
4	BX out	Yellow/White
5	AY out	Green
6	BY out	Green/White
7	AZ out	Blue
8	BZ out	Blue/White
9	BT1	Brown
10	BTcom	White
11	BT2	Purple
12	/	/

USB



RS232

