



WORLD IN HANDS
BUSINESS AND TRADING

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JOYSTICK has 2-axis contactless joystick JS2X-4.5V, incl. XY axis measurement: forward/reverse, left/right, each axis can reach up to ± 20 degree.

For each axis, one programmable hall sensor is used to fulfill zero adjustment, linearity adjustment, full-scale output adjustment, and temperature compensation. Each axis is calibrated by 9 points. total 18 point calibration by XY axis. It is widely used in precise joystick control, full scale linearity up to 1%, especially prominent feature: zero output is 2.48-2.52V at 5V power supply, product safety and long service life (5 Million operation) are excellent, its mounting flange allows installation on the panel of the upper or lower end.

As for the production, fully automatic calibration devices are utilized, 3 minutes for total calibration and verification periods, which can be quick and no production errors.

JS2X-4.5V has small size, low operating power and high reliability, can be ideal for electric wheelchair, robot, CCTV control and CNC machine tools, professional camera control, etc.

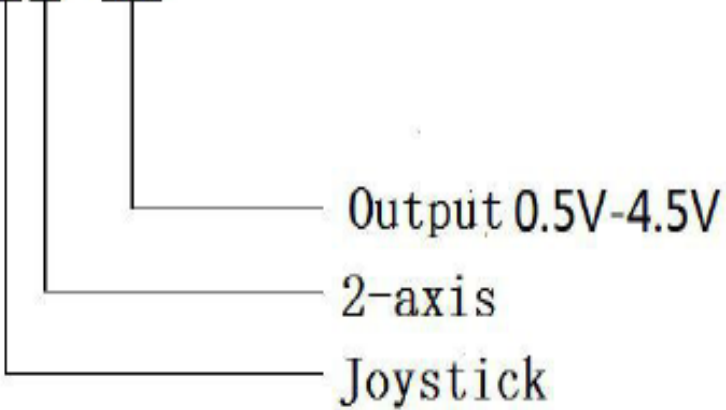




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1: Part number:

JS 2X - 4.5V



2: Parameter

Mechanical	
XY axis	
Lever operating force breakout	3N
Lever operating force full deflection	4.5N
Lever operating force max allowable	250N



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Lever action	Self centering
Weight	90g
Handle mechanical angle (X axis)	$\pm 20^0$
Handle mechanical angle (Y axis)	$\pm 20^0$
Excepted life	5 million operations
Environmental	
Operate temp (compensated)	-25 to 100 degree
Storage temp	-40 to 125 degree
Environmental protection above flange	IP65
Electrical	
Sensor type	Hall effect sensor
Supply voltage	$5 \pm 0.5V$
Max supply voltage	-8.5 ~ 18VDC
Output impedance	100 Ω each axis
Center reference output(no load)	2.48-2.52V @ 5V
Current consumption-max	24mA
Output ramp	Linear output of each axis



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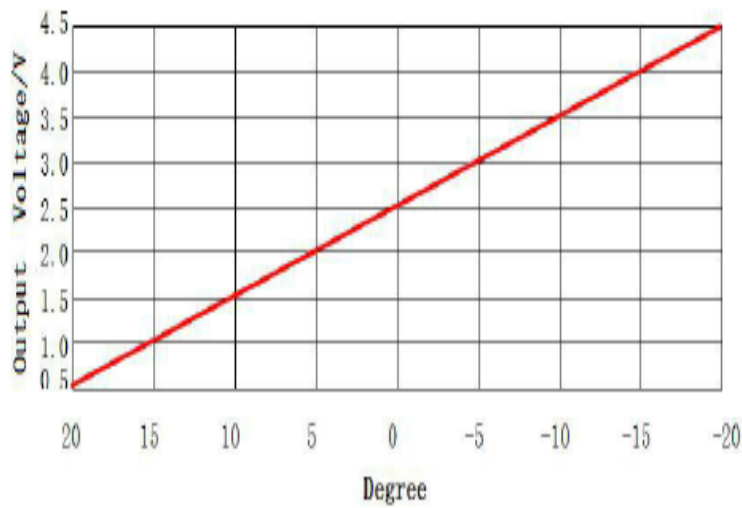
Output ramp		Linear output of each axis		
Spec (5.0 ± 0.01VDC power supply, 25° C), output is linear with power supply				
	Min	Typ	Max	Unit
Power supply	4.5	5.0	5.5	Vdc
Power current		21	30	mA
Zero output(0 degree)	2.48	2.5	2.52	Vdc
Forward/Left full deflection output (-20 degree)	0.47	0.5	0.53	Vdc
Reverse/Right full deflection output (+20 degree)	4.48	4.5	4.52	Vdc
Linearity output		± 0.3	± 1	%FSS
Response time			1.0	ms

Response time			1.0	ms
Linearity output		± 0.3	± 1	%FSS
Reverse/Right full deflection output (+20 degree)	4.48	4.5	4.52	Vdc

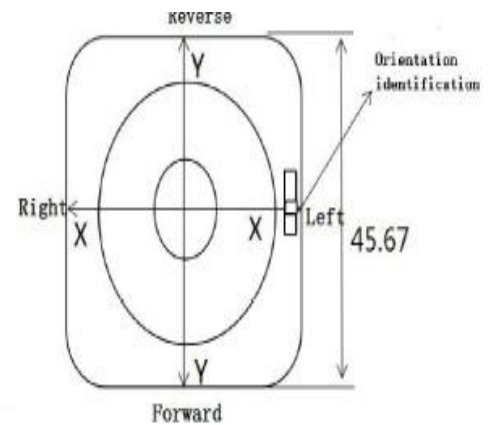
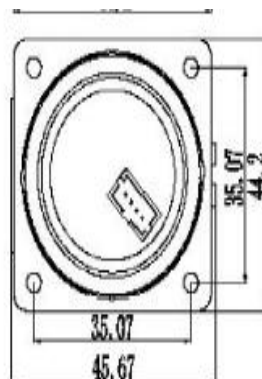
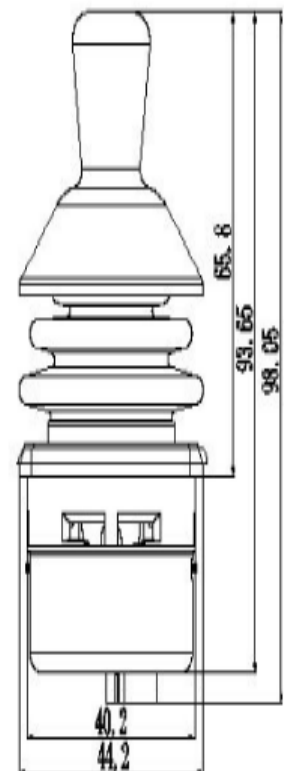


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3: Output curve



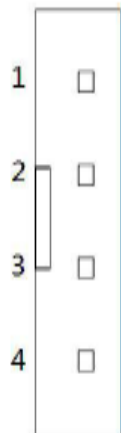
4: Dimension





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5: Electricity



Pin Description:

1 0V

2 5V

3 X axis output

4 Y axis output

8: Be Customized As Required



9: Application





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PAYMENT TERMS

- ▶ PRICE PER UNIT \$17.00USD EXW
- ▶ T/T 30% FOR PRODUCTION AND BALANCE BEFORE SHIPMENT.
- ▶ 5% COMISION FOR WORLD IN HANDS LTD.

*QUOTATION VALID FOR 15 DAYS



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BANK INFORMATION

- ▶ BANK NAME: HSBC HONG KONG
- ▶ BENEFICIARY NAME: WORLD IN HANDS LTD
- ▶ Bank code : 004
- ▶ Branch code: 652
- ▶ Account No: 652 - 460346 - 838
- ▶ Bank Address: 1 Queen's Road Central, Hong Kong
- ▶ SWIFT CODE: HSBCHKHHHKH