

3-axis Contactless Joystick JS3X-4.5V-B-HD

SENSTEK has 3-axis contactless joystick JS3X-4.5V-B-HD, incl. XYZ axis measurement: left-right rotation, 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 11 points, total 33 points calibration by XYZ axis. It is widely used in precise joystick control, full scale linearity up to 1%, especially prominent feature: zero output

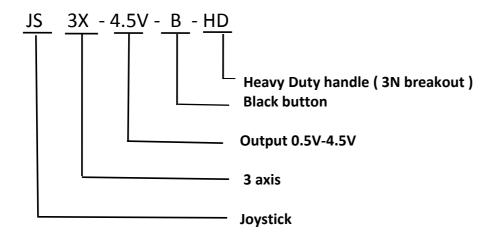
is 2.48-2.52V at 5V power supply. Safety and long service life (5 Million operation) are excellent.

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.



JS3X-4.5V-B-HD 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.

1: Part number:JS3X-4.5V-B-HD, 3 axis Joystick, 0.5-4.5V output for each axis, black ON/OFF button, heavy duty handle





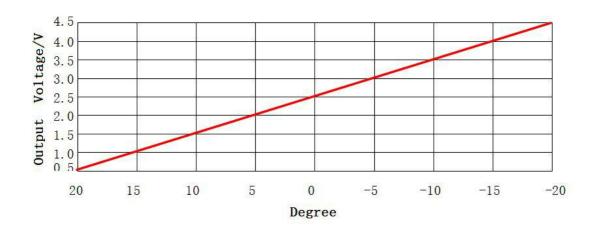
2: Performance

Mechanical				
XY Axis (Lever operating force)				
Breakout	3 N			
Operating	4.5 N			
Max allowable	250 N			
Z Axis (Handle rotational torque)				
Breakout	0.04 Nm			
Operating	0.06 Nm			
Max allowable	1.0 Nm			
Lever action	Self centering			
Weight	90g			
Handle mechanical angle (X axis)	$\pm 20^{0}$			
Handle mechanical angle (Y axis)	± 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			
Sensor type	Hall effect sensor			
Supply voltage	5 ± 0.5 V			
Max supply voltage	-8.5 ~ 18VDC			
Output impedance	100Ω each axis			
Center reference output(no load)	2.48-2.52V @ 5V			
Center reference impedance	1.1 ΚΩ			
Current consumption-max	24mA			
Output ramp	Linear output of each axis			

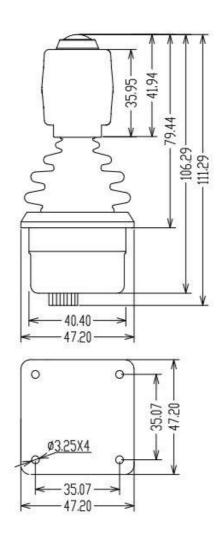
Electrical						
Spec (5.0±0.01VDC power supply, 25°C), output is linear with power supply						
Item	Min	Тур	Max	Unit		
Power supply	4.5	5.0	5.5	Vdc		
Power current		21	30	mA		
Zero output (0 degree)	2.48	2.5	2.52	Vdc		
Forward/Left full deflection output	0.47	0.5	0.53	Vdc		
(- 20 degree)						
Forward/Left full deflection output	4.48	4.5	4.52	Vdc		
(+ 20 degree)						
Linearity output		± 0.3	± 1	%FSS		
Response Time			1.0	ms		



3: Output Curve



4: Dimension

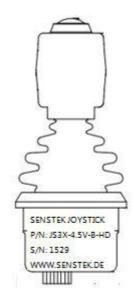




5: Electricity (with 20cm 8 pins cable)

1		2	Pin 1	Description Supply voltage
7580		08	2	Left/Right (X axis) output
3		4	3	0 V
		-2	4	Forward/backward (Y axis) output
5		6	5	NC
			6	1/2 supply voltage output
7		8	7	Z axis output
			8	Switch ON/OFF

6: Label: XXXX - yyww, For example: 1533



7: Trade Info

Trade Terms	FOB Suzhou	
Payment Terms	T/T, Western Union (30% deposit, balance before shipment)	
Delivery Time	3-5 days Sample, 2 weeks Order	
Shipping	ipping By air / Express / Designated Agent	
Service & Support	12 months warranty.	
	Great after-sales service and offer solutions within 24 hours.	



8: Be Customized As Required



9: Application







10: Company Info

Suzhou Senstek is a commitment to provide high-quality products of high-tech joint ventures for the sensor chip and sensor system, research and development headquarter is located in Freiburg, Germany, the registered brand SENSTEK. China company is set-up in September 2014 in Zhangjiagang City, Jiangsu Province.

Senstek focus on the Hall integrated sensor strategy, research and development of high performance programmable linear Hall chip, filled the blank of high performance magnetic sensor products in China market. Senstek has 3 returnees from Europe with international first-class level. We have 8 Patents on pressure sensor, hall sensor and Joystick.

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