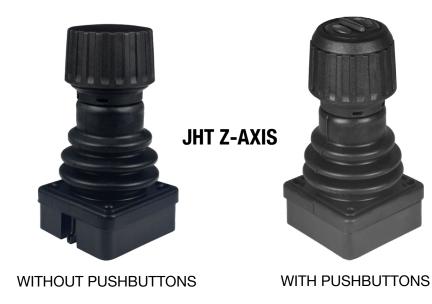


JHT Z-Axis Miniature Hall Effect Joystick





The JHT Z-Axis is like the JHT Miniature Series Hall Effect Joystick, except it has a Z-Axis knob on the top of the joystick that rotates 60°. Choose from detent, friction hold and spring return to center with various gating options.

The compact design and robust construction make it ideal for applications requiring precision control in a limited space. Applications include robotics, construction equipment, hydraulic controls, medical and surgical equipment, and security cameras. Joystick electronics are sealed to IP68S, and EMI/RFI immunity are per SAE J1113 specifications.

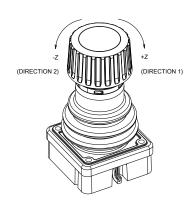
- 60° rotational movement of the knob
- Compact design
- Contactless Hall effect technology
- Joystick tested to 5 million operational cycles in all directions; Z-Axis and pushbuttons to 1 million
- CANbus, SPI or analog output
- Optional pushbutton switches
- Joystick electronics sealed per IP68S
- RoHS compliant

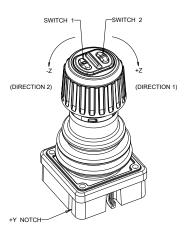


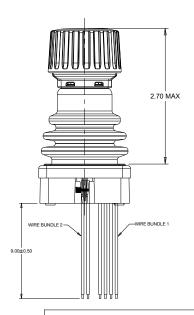
PRODUCT BULLETIN

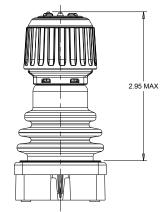
Z-AXIS

Z-AXIS WITH PUSHBUTTONS





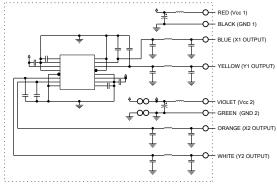




WIRES NOT SHOWN IN ALL VIEWS FOR CLARITY

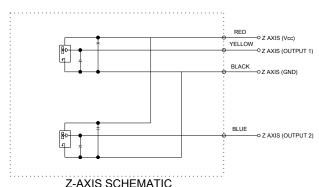
ANALOG IOVETICK

	ANALOG JOYSTICK			
RATED AT Vcc = 5V @ 20° C LOAD = 1ma (4.7KΩ)	UNITS	MIN	TYP	MAX
SUPPLY VOLTAGE	VDC	4.50	5.00	5.50
OUTPUT VOLTAGE TOLERANCE AT CENTER (SEE APPROPRIATE GRAPH FOR OUTPUT VOLTAGES)	VDC @5V Vcc	25	N/A	+.25
OUTPUT VOLTAGE TOLERANCE FULL TRAVEL (SEE APPROPRIATE GRAPH FOR OUTPUT VOLTAGES)	VDC @5V Vcc	25	N/A	+.25
SUPPLY CURRENT PER OUTPUT B=0, Vcc=5V, 1o=0	mA	N/A	10	12
OUTPUT IMPEDANCE	kΩ	N/A	1.0	N/A
		JOYS	STICK	
MECHANICAL LIFE ALL DIRECTIONS	5,000,000 CYCLES			
TRAVEL ANGLE	DEGREES	18	20	22
OVER TRAVEL ANGLE	DEGREES	0.5	1.0	1.5
MAX ALLOWABLE RADIAL FORCE (STYLES 11, 12, & 21) @ GRP	LBS	N/A	N/A	50
MAX ALLOWABLE RADIAL FORCE (ALL OTHER STYLES) @ GRP	LBS	N/A	N/A	15
	JOYSTICK			
ELECTRONIC ENCLOSURE DESIGN	ISO 20653, IP6K8S - DUSTTIGHT, CONTINUOUS IMMERSION, 1 METER FOR 31 MINUTES, STATIONARY DURING TEST(S)			
EMI/RFI WITHSTAND	PER SAE J1113 CONTACT FACTORY FOR DETAILS			
MATERIAL:				
HOUSING	THERMOPLASTIC, BLACK			
BELLOWS	SILICONE, BLACK			
HARDWARE	NOT PROVIDED			

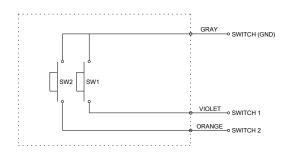


GENERAL SCHEMATIC

(WIRE BUNDLE 1)
ALL OUTPUTS ARE NOT PRESENT IN ALL CONFIGURATIONS



Z-AXIS SCHEMATIC (WIRE BUNDLE 2) ALL WIRES ARE NOT PRESENT IN ALL CONFIGURATIONS NOT INCLUDED IN SPI MESSAGE



Z-AXIS WITH PUSHBUTTONS SCHEMATIC

(WIRE BUNDLE 2)
ALL WIRES ARE NOT PRESENT IN ALL CONFIGURATIONS
NOT INCLUDED IN SPI MESSAGE

