

W100 Series Thumbwheel Controller

Product Features

- Hall sensor;
- Miniature design;
- Bilateral control;
- Mechanical spring-return operation;
- Excellent analog proportional control signal output;
- Designed for joystick, armrest and panel mounting;
- CE approved, RoHS 2011/65/EU, Annex II, including (EU) 2015/863 compliant.

Application

RunnTech W100 series thumbwheel controller is a revolutionary Hall effect control providing proportional control, can be used to install on the console alone, also can be installed in HD10 grip or armrest and panel mount integration.



Technical Information

Environment Parameter		
Storage Temperature	-50°C...+80°C	
Operating Temperature	-40°C...+80°C	
Protection Grade	IP64	
Vibration	Amplitude±3g, Frequency: 10Hz-200Hz	
Impact	20g, 6ms, Semi-sinusoidal	
EMC Anti-interference Rank	100V/m, 30MHz to 1GHz, 80% sine-wave modulation, meet EN50082-2 (1995) standard	
EMC Emission Rank	Rank B, 150KHz to 30MHz, meet EN50081-2 (1993) standard	
ESD Anti-interference Rank	Rank 4, 8KV contact discharge, 15KV air discharge, meet IEC61000-4-2 standard	
Mechanical Parameter		
Mechanical Angle	Potentiometer: ±32°, Hall sensor: ±20°	
Operating Torque	5N (50N max)	
Mechanical Life	1 million	
Mechanical Error	± 0.5°	
Electrical Parameter		
Hall Sensor	Power Supply Voltage	5±0.5V DC
	Power Supply Current Consumption	6.5mA/hall sensor
	Resolution Ratio	infinite
	Maximum Voltage	15VDC
	Reversed Polarity Maximum Voltage	14.5VDC
	Load Resistance	5KΩ
	Median Voltage (no-load)	48 - 52%Vs
Wire Instruction	Red	5V DC
	Grey	GND
	Yellow	OUT

Product Configuration

No.	Item	Content	
1	Serial Number	W100 series thumbwheel controller	
2	Operation Mode	T - spring return to center	
3	Electrical Output Form	Hall Sensor	HV1: DC 5V, 0...2.5...5V (rail to rail)
			HV2: DC 5V, 0.5...2.5...4.5V
			HV3: DC 5V, 1.0...2.5...4.0V
			HV4: DC 5V, 1.25...2.5...3.75V

W100L - T - HV1

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serial number _____ _____ _____ electrical output form

operation mode _____

Product Installation

