

# W300 Series Thumbwheel Controller

## Product Features

- Hall sensor;
- Miniature design;
- Bilateral or full stroke 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 W300 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	IP67	
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	Hall sensor: ±40°	
Operating Force	1N (5N max)	
Mechanical Life	5 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	W300 series thumbwheel controller	
2	Operation Mode	T - spring return to center	
3	Electrical Output Form	Hall Sensor	HV1: DC 5V, 0...5V
			HV2: DC 5V, 0.5...4.5V
			HV3: DC 5V, 1...4.0V
			HV4: DC 5V, 1.25...3.75V

  

**W300 - T - HV1**

①                      ②                      ③

serial number      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      electrical output form

operation mode      \_\_\_\_\_

### Product Installation

