

RT600 Series Hall Effect Fingertip Joystick

Product Features

- Hall effect sensor;
- Single axis, dual axis or 3 axis control;
- Mechanical spring-return to center operation;
- Excellent analog proportional control signal output;
- Easy to install, flexible operation, uniform texture, maintenance-free;
- CE approved, RoHS 2011/65/EU, Annex II, including (EU) 2015/863 compliant.

Application

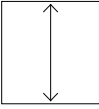
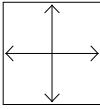
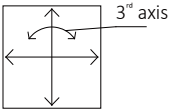
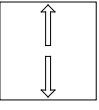
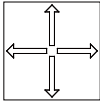
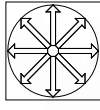
RunnTech 600 series non-contact Hall effect fingertip joystick is ideal for: Medical imaging system, Measurement equipments, Automative control, Picture disposal devices, Move photography CCTV control system, Robotic operations, Optical instruments, Surveillance monitoring, Studio related apparatuses, Audio video editing equipments, Navigation systems, Powered wheelchairs, CMM machines, Professional camera control, Military equipment, Special vehicles, etc.



Technical Information

Environment Parameter		
Storage Temperature	-50°C...+80°C	
Operating Temperature	-25°C...+80°C	
Protection Grade	IP65	
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: ±20°	
Operating Torque	4.5N (50N 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

Product Configuration

No.	Item	Content	
1	Serial Number	RT600 Series Hall Effect Fingertip Joystick	
2	Operation Mode	T - spring return to center position	
3	Operation Axis	   1. single axis 2. dual axis 3. three axis	
4	Limiter Plate	   01. Y axis 02. Y/X axis plus direction 03. Y/X axis full direction	
5	Electrical Output	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
			HV5: DC 5V, 1.1...2.5...3.9V
6	Handle/Grip Type	Refer to Table 1-2 Handle: HD12, HD13 and HD14	
7	Mounting Dimensions	M11: 36x36, central hole 38	

RT600 - T - 3 - 03 - HV1 - HD12 - BT2 - M11

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

serial number ——— ①
 operation mode ——— ②
 operation axis ——— ③
 limiter plate ——— ④
 mounting dimension ——— ⑧
 self-resetting button ——— ⑤
 handle/grip type ——— ⑥
 electrical output form ——— ⑦

Product Mounting

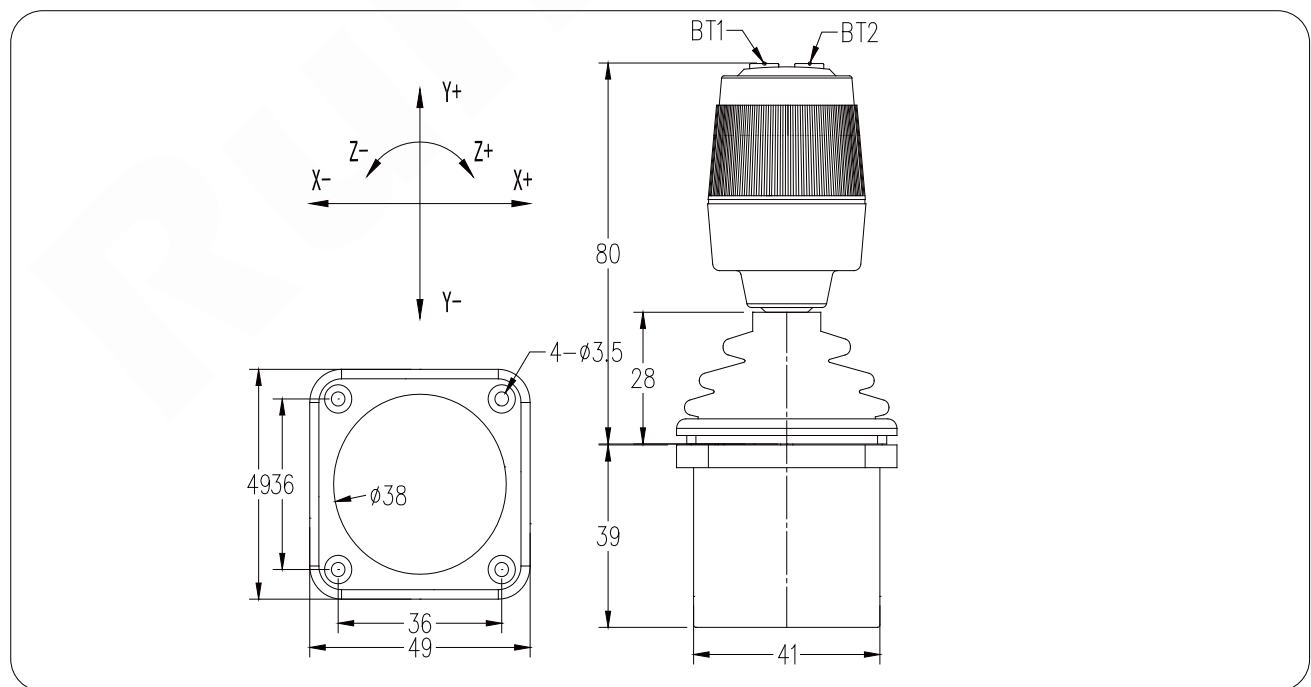


Table 1-2 Handle Type




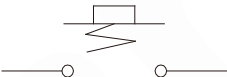

1	HD12		with or without 1 self-resetting button (BT1) or 2 self-resetting buttons (BT2) * only black colors button	Diameter 35×52
2	HD13		with or without 1 self-resetting button (BT1) or 1 self-lock button (BS1) Refer to Table 2-1	Diameter 24×60
3	HD14		with or without 1 self-resetting button (BT1) or 1 self-lock button (BS1) Refer to Table 2-1	Diameter 24×50

Table 2-1 Accessories

No.	Type	Description	Parameter	Remark
1	BT	self-resetting button 	24V2A	button color: Red - R Blue - BU Black - BK Yellow - Y Green - G White - W
2	BS	self-locking button 	24V2A	button color: Red - R Blue - BU Yellow - Y Green - G