

# Joystick Selection Guide

Ruffy Controls, Inc.

Ruffy Controls is an American manufacturer of precision thumb operated and fingertip joysticks. Our Hall effect and switch based joysticks are installed worldwide across a variety of fields including robotics, unmanned and electric vehicles as well as marine propulsion systems. Ruffy Controls is headquartered in Carlsbad, California.



## MINIATURE THUMB CONTROLS\*

### PROPORTIONAL OUTPUTS

#### TS1 Series



##### Specifications

- Hall effect tech
- One or two axis
- IP67 panel sealing
- +/-50mV RTC
- Full voltage outputs at corner positions
- Pushbutton option

#### TS2 Series



##### Specifications

- Hall effect tech
- Micro design
- One or two axis
- IP67 panel sealing
- 1/2" diameter body

#### MSA Series



##### Specifications

- Hall effect tech
- Micro design
- Single axis
- IP67 panel sealing
- Spring return centering
- Single or redundant outputs

#### SAT Series



##### Specifications

- Hall effect tech
- Single axis
- IP67 panel sealing
- Spring return centering
- +/-50mV RTC

### DISCRETE SWITCH OUTPUTS

#### SS1 Series



##### Specifications

- Hall effect switching
- 4-way operation
- Up to five million lifecycles
- IP67 panel sealing
- Momentary operation

#### HS1 Series



##### Specifications

- Miniature trim switch
- 2, 3, 4, 5, 8 or 9 way switching
- Momentary actuation
- IP67 panel sealing
- Tactile feedback

#### MHS Series



##### Specifications

- Micro navigation switch
- 5 & 9 way operation
- Momentary contacts
- IP67 panel sealing
- Center pushbutton may be actuated off center
- Potted flying leads

#### FNR Series



##### Specifications

- Hall effect tech
- Three position toggle switch
- ON-OFF-ON action
- IP67 panel sealing
- 3 million lifecycles

\*Specifications subject to change without notice

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**Ruffy Controls, Inc.**  
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## FINGERTIP CONTROLS\*

PROPORTIONAL OUTPUTS

### HE1 Series



#### Specifications

- Hall effect tech
- Up to three axis
- Analog or USB outputs
- +/-50mV RTC
- Spring centering

### HE2 Series



#### Specifications

- Hall effect tech
- Up to three axis
- IP67 panel sealing - all handles
- Ruggedized design
- Analog or USB outputs
- +/-50mV RTC

### HE3 Series



#### Specifications

- Hall effect tech
- Redundant outputs
- Up to three axis
- IP67 panel sealing
- Up to 5m lifecycles

### HCK Series



#### Specifications

- Hall effect tech
- Single axis operation
- Spring return or friction hold
- IP67 panel sealing
- 5m lifecycles

### MH Series



#### Specifications

- Hall effect tech
- Up to three axis
- Spring centering
- 5 million lifecycles
- +/-50mV RTC

### SG Series



#### Specifications

- Hall effect tech
- Redundant outputs
- One or two axis
- IP67 panel sealing
- Many handle options

## SWITCHING OUTPUTS

### SS2 Series



#### Specifications

- Switching output
- 2, 4 or 8 way operation
- Rated up to 5A
- IP67 panel sealing
- Spring return, momentary contacts

## USB DESKTOPS

### HED & MFD Series



#### HED Specifications

- Hall effect tech
- Three axis joystick
- 10 pushbuttons
- USB outputs
- Ergonomic right handed design



#### MFD Specifications

- Potentiometer or hall effect tech
- USB outputs
- Ambidextrous
- Soft silicone wrist pad
- Up to 6 pushbuttons

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