# **HS** series

**LIFECYCLES** 

200,000 operations

100,000 operations

## Sealed 5-way switch based miniature joystick

Distinctive features and specifications



5-way with center pushbutton option
Positive tactile feedback
MOM-OFF-MOM action
Threaded bush mount option
Sealed to IP68 and IP69K
Connectorized housing

### CURRENT/VOLTAGE RATING WITH RESISTIVE LOAD

#### CONTACT

- Gold plated (G)
- Silver plated (S)
- Mechanical life
- Insulation resistance
- Voltage withstand
- Contact resistance
- Electrical function

### **RATING**

- 10mA @ 30VDC
- 100mA @ 30VDC
- 300,000 operations
- Min  $100M\Omega$  (250VDC by insulation resistance meter)
- 500VAC for 1 minute
- Max 200m $\Omega$  (by YHP4328A)
- MOM-OFF-MOM

### **MECHANICAL**

- Operating Force: 5.56N±0.53N (1.25lbf±0.12lbf)1
- Maximum Vertical Load: 200N (45lbf)1
- Maximum Horizontal Load: 150N (33.7lbf)1
- Lever travel: 30° (±15°)
- Mass/weight: 17g (0.0375lb) (Option HS1DXXXA)

### **ENVIRONMENTAL**

- Sealing: IP68, IP69K<sup>2</sup>
- Operating temperature: -25°C to +80°C (-13°F to +176°F)

### PUSHBUTTON SWITCH (Option 6 Handle)

- Electrical life: 100,000 cycles
- Rating: 50 mA,12VDC
- Terminal: Brass with silver plating
- Contact resistance: 100 milliohms max.
- Insulation resistance: 100 megohms min. 500VDC
- Dielectric strength: 250VAC /1 minute
- Contact arrangement: 1 pole 1 throw
- Operation force: 1.5lbf
- Stop strength: Max 3kgf vertical static load for 15 seconds
- Operating temperature: -25°C to +70°C (-13°F to +158°F)
- Storage temperature: -30°C to +85°C (-22°F to +185°F)

### NOTES:

- 1. Force applied to the top of the castle cap.
- 3. The HS Series tactile toggle switch is fitted with a six terminal Molex (501331-0607) connector. A mating harness is not included, harness, necessary for the Option 6 Handle is part number 505-509.
- All values are nominal.

### **TERMINATION**

- Manufacturer: Molex
- Manufacturer part number: 501331-0607
- Product range: Pico-Clasp
- Circuits: Six
- Pitch: 1.00mm
- Mating connector: Molex 501330-0600

### OPTIONAL MATING HARNESS<sup>3</sup>

• Wire type: 28AWG 25cm PTFE • Connector: Molex 501330-0600

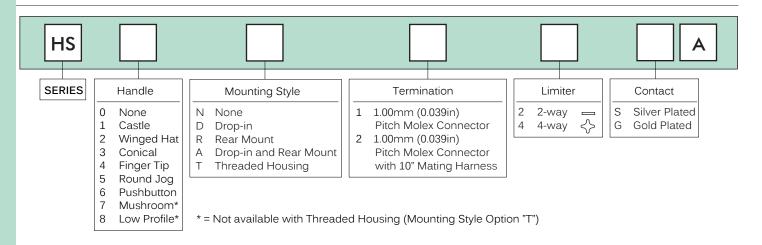
- 2. All options are IP68 and IP69K rated, however Drop-in mounting does not prevent panel ingress.
- but may be specified at the time of order for an additional charge. The 4-function harness is part number 505-508. The 5-function

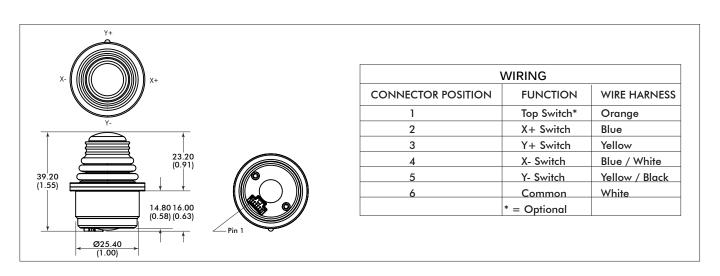
Note: The company reserves the right to change specifications without notice

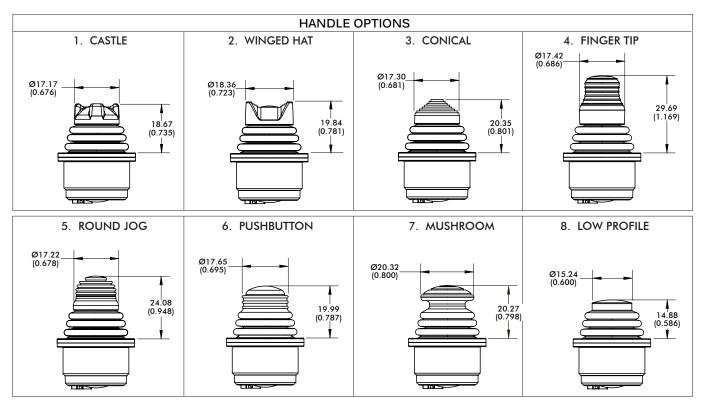
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Overview







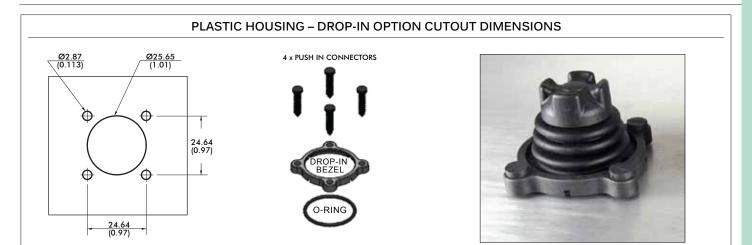
NOTE: Dimensions are in mm/(inch)

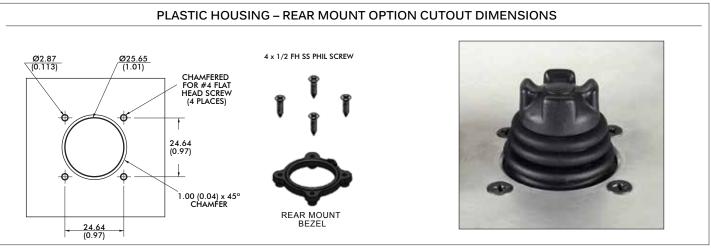
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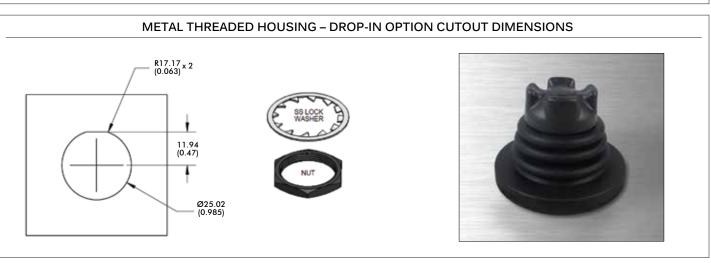
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Mounting options and accessories







### NOTES:

- 1. The maximum panel thickness for the Rear Mount configuration is 2.032mm/(0.08in).
- 2. The under panel depth for the Drop-in configuration is 16.02mm/(0.631in).
- 3. The under panel depth for the Metal Threaded Housing configuration is 14.55mm/(0.573in).
- 4. Dimensions are in mm/(inch).