

Sealed to IP68 and IP69K

□ Connectorized housing

HS series

Sealed 5-way switch based miniature joystick



APEM's HS series is a single pole, MOM-OFF-MOM micro switching joystick. Numerous button styles are available and the HS series may be specified for 2-way, 4-way and 5-way operation. The HS series is available with a threaded case or may be configured for rear or drop-in panel mounting and is well suited for control grip integration.

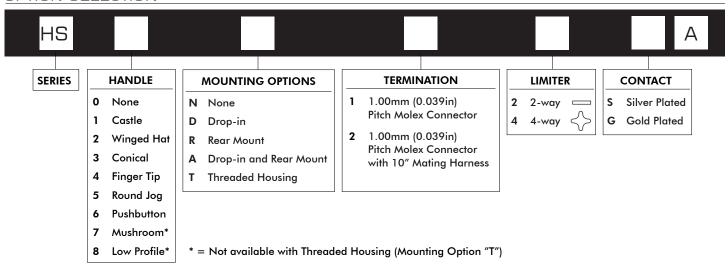




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OPTION SELECTION



SPECIFICATIONS

	RRENT/VOLTAGE RATING WITH RESIST	
CONTACT	<u>RATING</u>	<u>LIFECYCLES</u>
Gold plated (G)	10mA @ 30VDC	 200,000 operations
Silver plated (S)	100mA @ 30VDC	 100,000 operations
Mechanical life	300,000 operations	
Insulation resistance	 Min 100MΩ (250VDC by insulation resistance meter) 	
Voltage withstand	 500VAC for 1 minute 	
Contact resistance	– Max 200mΩ (by YHP4328A)	
Electrical function	- MOM-OFF-MOM	
	MECHANICAL	
Operating Force	- 5.56N±0.53N (1.25lbf±0.12l	bf)¹

MECHAINCAL		
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	$-30^{\circ} (\pm 15^{\circ})$	
Mass/weight	17g (0.0375lb) (Option HS1DXXXA)	

ENVIRONMENTAL	
Sealing Operating temperature	 IP68, IP69K² -25°C to +80°C (-13°F to +176°F)

PUSHBUTTON SWITCH SPECIFICATIONS (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)	

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

NOTES:

- 1 Force applied to the top of the castle cap.
- 2 All options are IP68 and IP69K rated, however Drop-in mounting does not prevent panel ingress.

Note: All values are nominal The company reserves the right to change specifications without notice.

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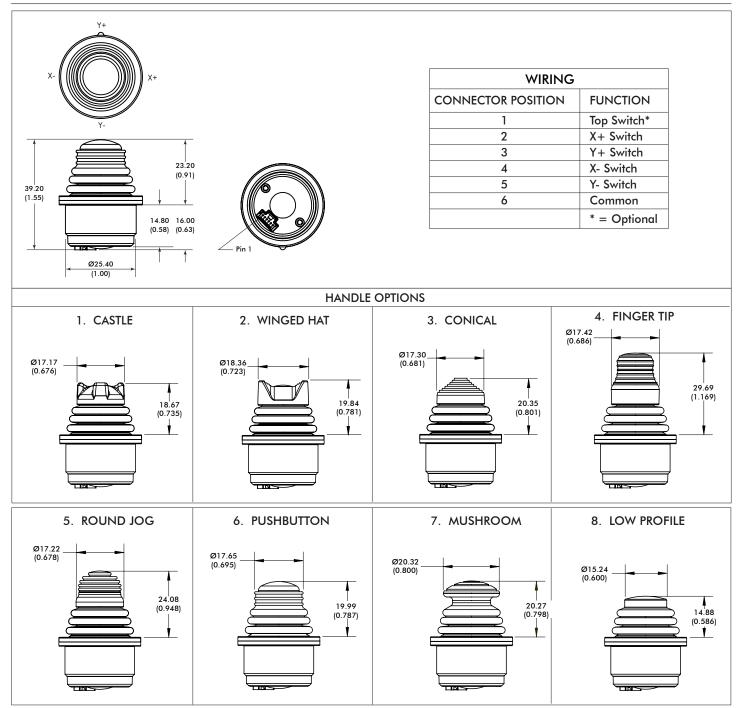
SPECIFICATIONS - continued

OPTIONAL MATING HARNESS ¹		
Wire type Connector	28AWG 25cm PTFEMolex 501330-0600	

NOTE:

1 The HS Series tactile toggle switch is fitted with a six terminal Molex (501331-0607) connector. A mating harness is not included, 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 harness, necessary for the Option 6 Handle is part number 505-509.

DIMENSIONAL DRAWINGS



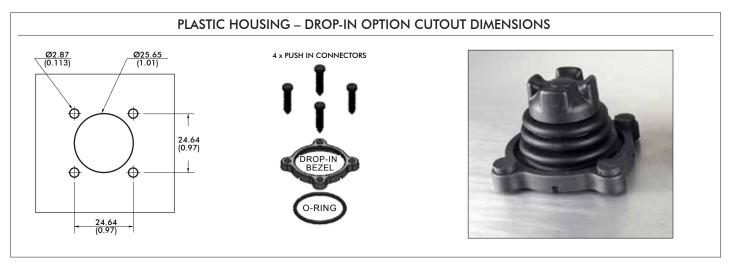
NOTE: Dimensions are in mm/(inch)

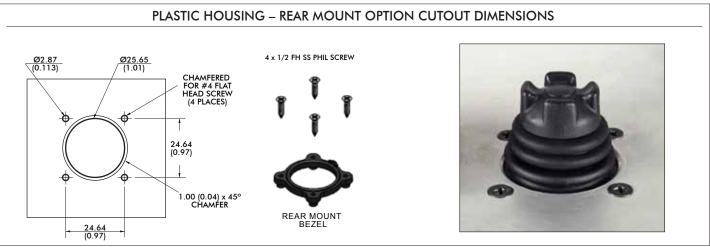
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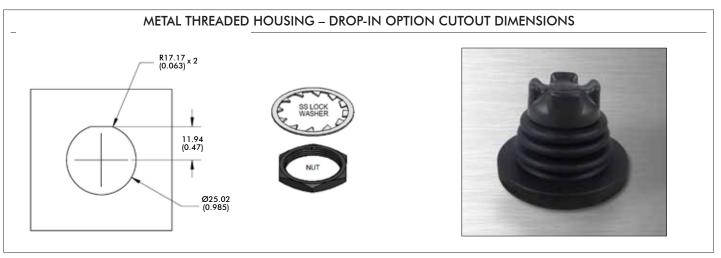
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MOUNTING OPTIONS AND MOUNTING ACCESSORIES







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).

Mouser Electronics

Authorized Distributor

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Apem:

HS1A24GA HS6T24GA HS6T24SA HS1A14SA