

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.



KEY FEATURES

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



Sealed 5-way switch based miniature joystick

OPTION SELECTION

HS				A
SERIES	HANDLE0None1Castle2Winged Hat3Conical4Finger Tip5Round Jog	MOUNTING OPTIONS N None D Drop-in R Rear Mount A Drop-in and Rear Mount T Threaded Housing	TERMINATION 1 1.00mm (0.039in) Pitch Molex Connector 2 1.00mm (0.039in) Pitch Molex Connector with 10" Mating Harness	LIMITER 2 2-way 4 4-way 2 -way G Gold Plated
	6 Pushbutton7 Mushroom*8 Low Profile*	* = Not available with Thread	ed Housing (Mounting Option "T")

SPECIFICATIONS

	ENT/VOLTAGE RATING WITH RESIS			
<u>CONTACT</u>	RATING	LIFECYCLES		
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 ins 	ulation 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±0.12lbf) ¹		
Maximum Vertical Load	– 200N (45lbf) ¹			
Maximum Horizontal Load	– 150N (33.7lbf) ¹			
Lever travel	– 30° (±15°)			
Mass/weight	 – 17g (0.0375lb) (Option HS1 	DXXXA)		
	ENVIRONMENTAL			
Sealing	– IP68, IP69K ²			
Operating temperature	– -25 ^o C to +80 ^o C (-13 ^o F to +1)	76°F)		
PUSHBUT	TON SWITCH SPECIFICATIONS (O	ption 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 			
Operating temperature	– -25 ^o C to +70 ^o C (-13 ^o F to +1			
Storage temperature	– -30°C to +85°C (-22°F to +1			
	NATION	NOTE		
Manufacturer	– Molex	- NOTES:		
Manufacturer part number	- 501331-0607	1 Force applied to the top of the		
Product range	– Pico-Clasp ™	castle cap.		
Circuits	– Six	2 All options are IP68 and IP69K		
Pitch	– 1.00mm	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.

Sealed 5-way switch based miniature joystick

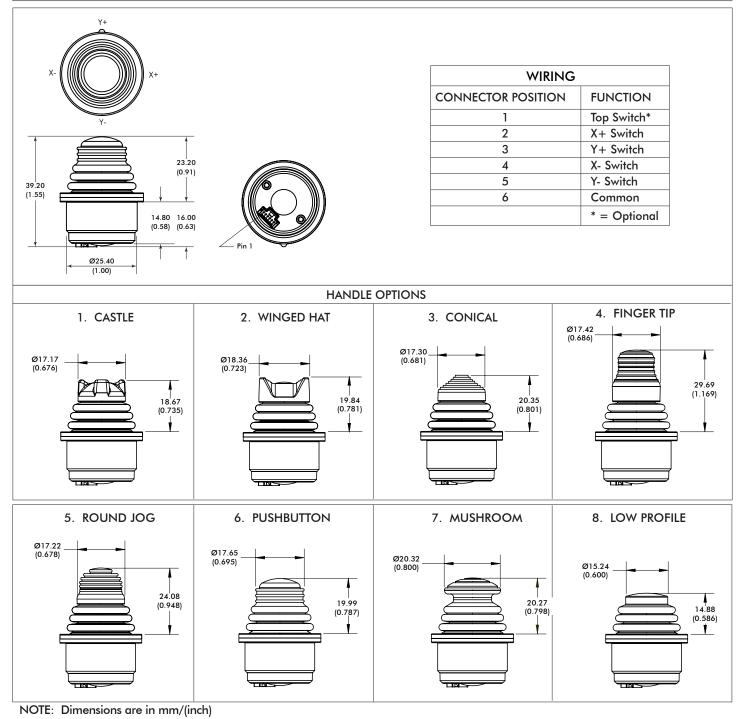
SPECIFICATIONS - continued

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

NOTE:

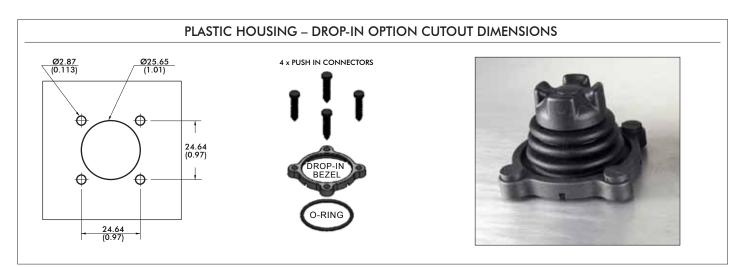
1 The HS Series tactile toggle switch is fitted with a six terminal Molex (501331-0607) connector. A mating harness is not included, but may be specified at the time of order for an additional charge. The 4-function harness is part number 505-508. The 5-function harness, necessary for the Option 6 Handle is part number 505-509.

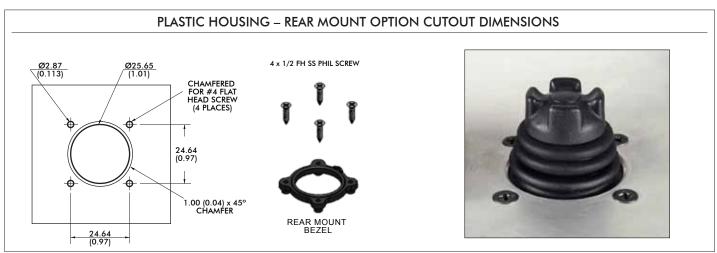
DIMENSIONAL DRAWINGS



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

Sealed 5-way switch based miniature joystick 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

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

HS1T24GA HS3T22GA HS6T24GS