Micro switch 5-way thumb controls • switching technology



2, 4 & 5-way (5-way with pushbutton option) operation Positive tactile feedback MOM-OFF-MOM Connectorized housing Several handle options available



15T-H5-1809

### ENVIRONMENTAL SPECIFICATIONS

- Operating Temperature: -25 °C to +80 °C (-13 °F to +176 °F)
- Storage Temperature: -30 °C to +85 °C (-22 °F to +185 °F)
- Above Panel Sealing: Up to IP67 & IP69K (subject to mounting style and final specifications)



### ELECTRICAL SPECIFICATIONS

- Current Rating: Gold 10 mA @ 30 VDC; Silver 100 mA @ 30 VDC
- Insulation Resistance: Min 100  $\mbox{M}\Omega$  (250 VDC by insulation resistance meter)
- Voltage Withstand: 500 VAC for 1 minute
- Contact Resistance: Max 200  $m\Omega$
- Electrical Function: Mom-off-mom

### MECHANICAL SPECIFICATIONS

- Operating Force: 5.0 N  $\pm$  1.0 N (1.12 lbf  $\pm$  0.22 lbf)
- Maximum Vertical Load: 200 N (45 lbf)
- Maximum Horizontal Load: 150 N (33.7 lbf)
- Mechanical Angle of Movement: 30°
- Expected Life: 300,000 lifecycles
- Mass/Weight: 17g (0.60 oz) (Option HS1DXXXA)
- Lever Action (centering): Spring

The company reserves the right to change specifications without notice.



ERMEC, S.L. BARCELONA C/ Francesc Teixidó, 22 08918 Badalona SPAIN Tel. +34 902 450 160 info@ermec.com www.ermec.com ERMEC, S.L. - MADRID C/ Puerto Rico, 4 28222 Majadahonda (Madrid) SPAIN

bilbao@ermec.com portugal@ermec.com

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OYSTICKS

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# MATERIALS

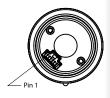
- Body: Glass filled nylon
- Handles:
  - 1, 2, 3 Glass filled nylon
  - 4, 5, 6, 7, 8 Silicone
  - B, C, D Thermoplastic elastomer

#### PUSHBUTTON SWITCH (OPTION 6 HANDLE)

- Electrical Life: 100,000 cycles
- Rating: 50 mA,12 VDC
- Terminal: Brass with silver plating
- Contact Resistance: 100 milliohms max.
- Insulation Resistance: 100 megohms min. 500 VDC
- Dielectric Strength: 250 VAC /1 minute
- Contact Arrangement: 1 pole 1 throw
- Operation Force: 1.5 lbf
- Stop Srength: Max 3 kgf 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)

## CONNECTIONS

CONNECTOR POSITION	FUNCTION	WIRE HARNESS
1	Top Switch*	Orange
2	X+Switch	Blue
3	Y+Switch	Yellow
4	X-Switch	Blue/White
5	Y-Switch	Yellow/Black
6	Common	White
*Optional		



### TERMINATION

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



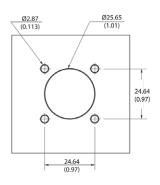
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# MOUNTING

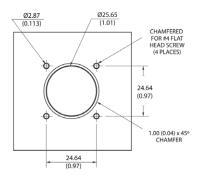
#### PLASTIC HOUSING - DROP-IN CUTOUT





• The under panel depth for the Drop-in configuration is 16.02 mm (0.631 in).

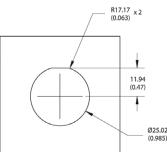
PLASTIC HOUSING - REAR MOUNT OPTION CUTOUT





• The maximum panel thickness for the Rear Mount configuration is 2.032 mm (0.08 in).

#### METAL THREADED HOUSING - DROP-IN CUTOUT



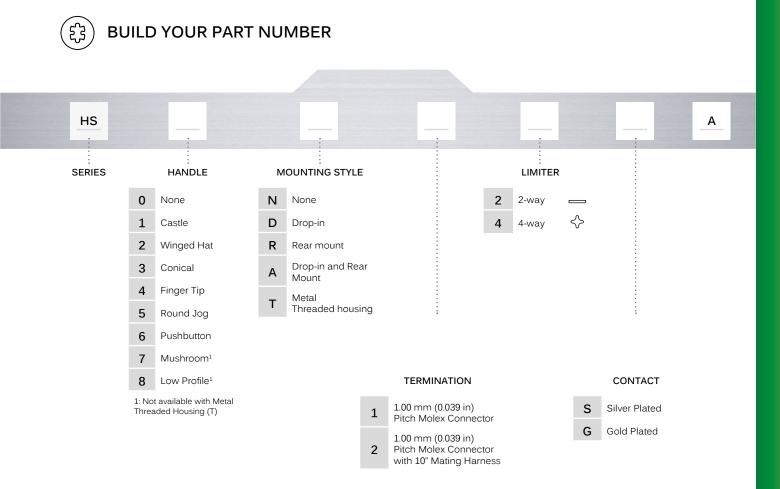


- The under panel depth for the Metal Threaded Housing configuration is 14.55 mm/(0.573 in).



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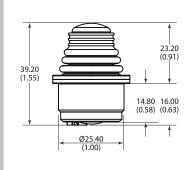
3

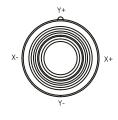
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#### DIMENSIONS

JOYSTICKS

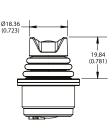






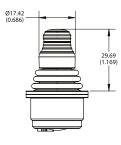
#### HANDLE OPTIONS



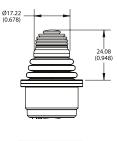


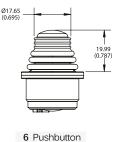
2 Winged hat





4 Fingertip





5 Round jog

### OPTIONAL MATING HARNESS

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



Ø15.24 (0.600) 14.88 (0.586)

6 Low profile

APEM



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