## Sealed 5-way switch based miniature joystick

Distinctive features and specifications

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

|  |  |  |
| :--- | :--- | :--- |
| CONTACT | $\underline{\text { RATING }}$ |  |
| - Gold plated (G) | $-10 \mathrm{~mA} @ 30 V D C$ | $-200,000$ operations |
| - Silver plated (S) | $-100 \mathrm{~mA} @ 30 \mathrm{VDC}$ | $-100,000$ operations |
| - Mechanical life | $-300,000$ operations |  |
| - Insulation resistance | $-M i n 100 \mathrm{M} \Omega(250 \mathrm{VDC}$ by insulation resistance meter) |  |
| - Voltage withstand | -500 VAC for 1 minute |  |
| - Contact resistance | $-M a x 200 \mathrm{~m} \Omega$ (by YHP4328A) |  |
| - Electrical function | $-M O M-O F F-M O M$ |  |

## MECHANICAL

- Operating Force: $5.56 \mathrm{~N} \pm 0.53 \mathrm{~N}(1.25 \mathrm{lbf} \pm 0.12 \mathrm{lbf})^{1}$
- Maximum Vertical Load: 200N (45lbf) ${ }^{1}$
- Maximum Horizontal Load: 150N (33.7lbf) ${ }^{1}$
- Lever travel: $30^{\circ}\left( \pm 15^{\circ}\right)$
- Mass/weight: 17 g (0.0375lb) (Option HS1DXXXA)


## ENVIRONMENTAL

- Sealing: IP68, IP69K²
- Operating temperature: $-25^{\circ} \mathrm{C}$ to $+80^{\circ} \mathrm{C}\left(-13^{\circ} \mathrm{F}\right.$ to $\left.+176^{\circ} \mathrm{F}\right)$


## PUSHBUTTON SWITCH (Option 6 Handle)

- Electrical life: 100,000 cycles
- Rating: $50 \mathrm{~mA}, 12 \mathrm{VDC}$
- 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: $-25^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}\left(-13^{\circ} \mathrm{F}\right.$ to $\left.+158^{\circ} \mathrm{F}\right)$
- Storage temperature: $-30^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}\left(-22^{\circ} \mathrm{F}\right.$ to $\left.+185^{\circ} \mathrm{F}\right)$


## TERMINATION

- Manufacturer: Molex
- Manufacturer part number: 501331-0607
- Product range: Pico-Clasp ${ }^{\text {TM }}$
- Circuits: Six
- Pitch: 1.00 mm
- Mating connector: Molex 501330-0600


## OPTIONAL MATING HARNESS ${ }^{3}$

- Wire type: 28AWG 25cm PTFE
- 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.
3. 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.
All values are nominal.

## HS series

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Overview


NOTE: Dimensions are in mm/(inch)

# HS series 

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Mounting options and accessories


PLASTIC HOUSING - REAR MOUNT OPTION CUTOUT DIMENSIONS


METAL THREADED HOUSING - DROP-IN OPTION CUTOUT DIMENSIONS


## NOTES:

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

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