



HS1 Series

MAIN FEATURES

- One or two axis
- MOM-OFF-MOM switching
- Positive tactile feedback
- Optional pushbutton feature
- IP67 above panel sealing



DESCRIPTION

The HS1 Series is a miniature multidirectional switching joystick with optional pushbutton feature. Featuring an elastomer actuator to provide user comfort and IP67 above panel sealing, the HS1 Series is well suited for both indoor and outdoor applications. This momentary switching joystick may be specified for 2-way, 3-way, 4-way, 5-way, 8-way or 9-way operation. It's supplied with a 28awg mounting cable and connection is conveniently made through the bottom of the joystick body.

SPECIFICATIONS*

MECHANICAL (X & Y) AXIS	
Angular travel:	6° total (3° each direction from center)
Expected life:	100k min
Centering:	Momentary
Mass/weight:	11 grams
Switch mechanism:	Tactile
Maximum vertical load:	60 lbF
Maximum horizontal load:	40 lbF**
Mounting torque:	3Nm min. applied to nut

* Specifications subject to change without notice

** Measured 0.45" above panel surface

ELECTRICAL	
Minimum contact rating:	10µA @ 1V DC
Maximum contact rating:	50mA @ 24V DC
Initial contact resistance:	100mΩ max
Insulation resistance:	100mΩ min @ 100V DC
Dielectric strength:	500V AC for 1 minute
Thermal shock:	PER EIA-364-32C

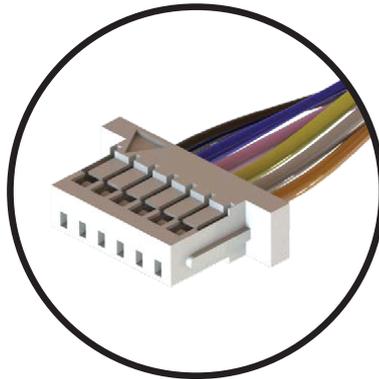
ENVIRONMENTAL	
Operating temperature:	-30°C to +85°C
Storage temperature:	-30°C to +85°C
Above panel sealing:	IP67*

* Above panel sealing. All configurations. Product is static.

MATERIALS	
Plastic housing:	Mineral & glass filled nylon
Boots/actuators:	Silicone (with tear resistant additive)

CONNECTIONS	
Housing body:	PCB header (JST BM06B-SRSS-TB)
Mating wire harness:	10" 28AWG PTFE to six position connector housing (JST SHR-06V-S-B)

PINOUT & MATING WIRE HARNESS



10" CABLE PROVIDED

PIN #	WIRE COLOR	DESCRIPTION
1	BLACK	Common
2	BLUE	X + Switch
3	PINK	X - Switch
4	YELLOW	Y + Switch
5	GREY	Y - Switch
6	ORANGE	Top Switch (optional)



HS1 SERIES PART NUMBER CODE

HS1 SERIES

LIMITER & ACTUATOR OPTION	
1	2-way, castle cap
2	3-way (2-way + top button, round cap)
3	3-way (2-way + top button, castle cap)
4	4-way, castle cap
5	5-way (4-way + top button, round cap)
6	5-way (4-way + top button, castle cap)
8	8-way, castle cap
9	9-way (8-way + top button, round cap)
10	9-way (8-way + top button, castle cap)

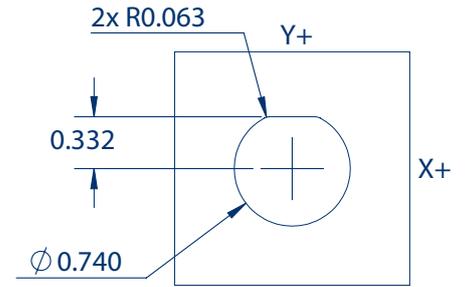
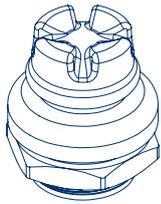


Round Cap

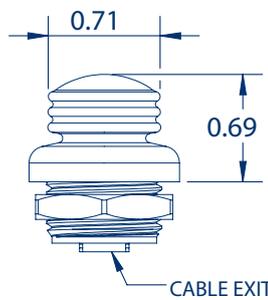
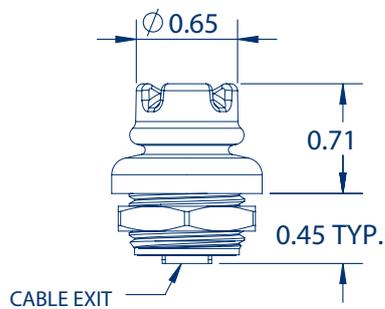
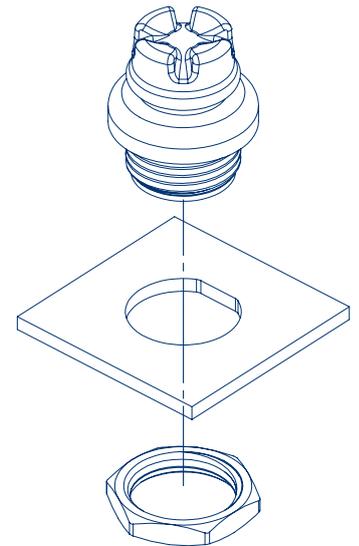
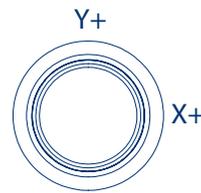
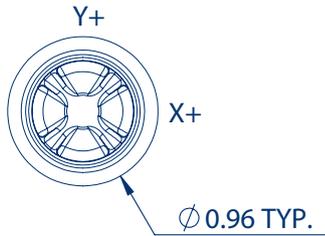


Castle Cap

■ **PANEL CUTOUT DIMENSIONS**



PANEL DIMENSIONS



- OPTION 1 (2-WAY)
- OPTION 3 (3-WAY)
- OPTION 4 (4-WAY)
- OPTION 6 (5-WAY)
- OPTION 8 (8-WAY)
- OPTION 10 (9-WAY)

- OPTION 2 (3-WAY)
- OPTION 9 (9-WAY)