



PRODUCTS

Miniature Joystick

Information and Specifications

The Miniature Joystick is our smallest precision analog joystick. It has been designed for keyboard and other installations which have a limited amount of available space. This joystick incorporates the same stick handles as our Standard Joystick and provides many of the same features. It is available in the following models:

- Model 100 (two axis)
- Model 200 (two axis with pushbutton)
- Model 300 (three axis)
- Model 400 (three axis with pushbutton)

Optional features include:

- spring centering or friction positive true positioning
- four different mounting bezels
- rubber boot seal
- 5K or 10K plastic conductive potentiometers

Specifications:

- | | |
|----------------------------------|------------------------------------------------------------|
| - joystick travel | 25° from design center in all directions |
| - mechanical cycle life | 5 million (minimum) |
| - main ball pivot | precision ground stainless steel |
| - stick shaft | 3/16" brass plated |
| - potentiometers | set at center of resistance |
| - potentiometer calibration | thumb tab provides up to 180° of potentiometer calibration |
| - return to center repeatability | +1% |
| - mounting | front or rear panel (see bezels) |
| - panel thickness (mounting) | 0.050" [1.27mm] to 0.1875" [4.76mm] |
| - deflection force | 0.18lbs @ 25° @ 1-1/2" up from pivot point |
| - storage temperature range | -40°C to +85°C |
| - operating temperature range | -25°C to +80°C |

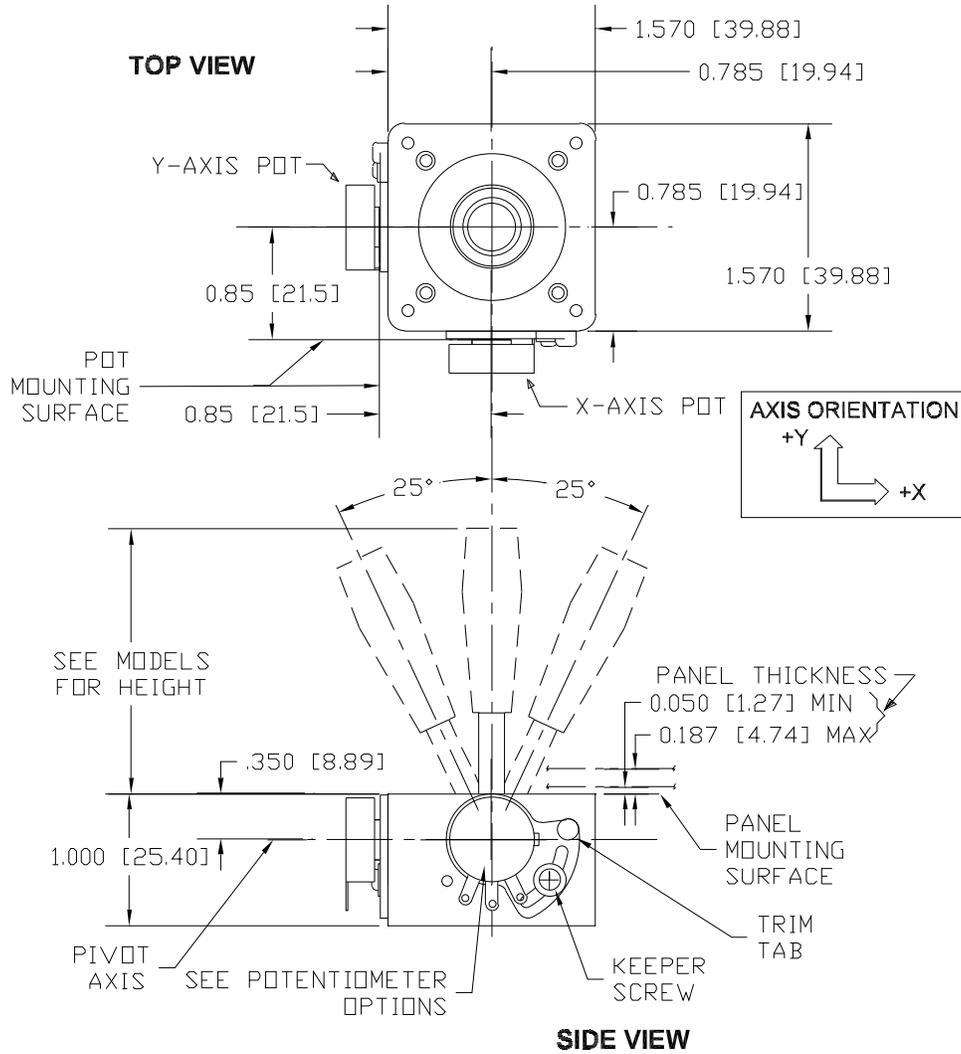
970 Park Center Drive
Vista, CA 92083
tel 760.598.2518
fax 760.598.2524
oemsales@chproducts.com
www.chproducts.com



PRODUCTS

Miniature Joystick

Miniature joystick line drawing



970 Park Center Drive
Vista, CA 92083
tel 760.598.2518
fax 760.598.2524
oemsales@chproducts.com
www.chproducts.com

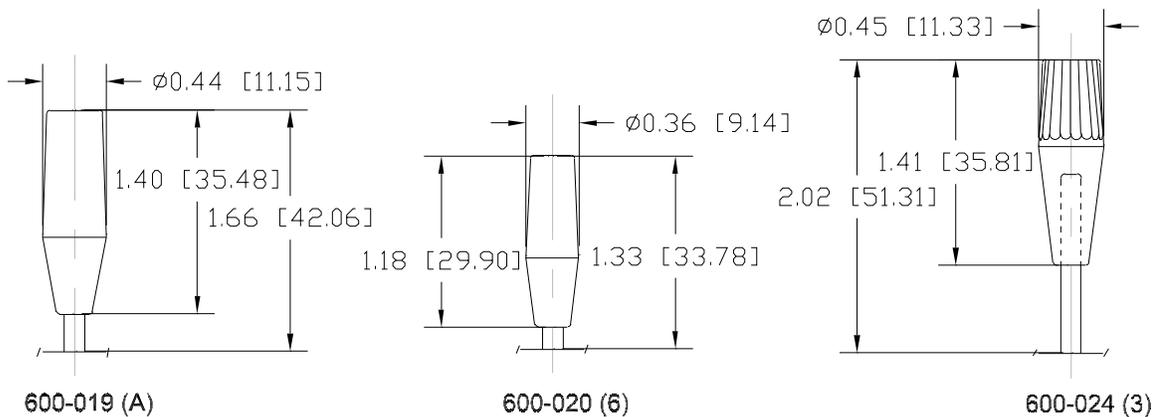
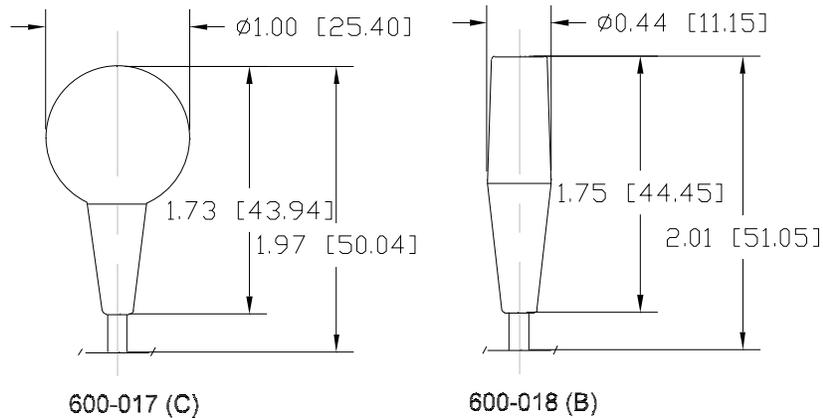


PRODUCTS

Standard and Miniature Joystick

Model 100 handle drawings (Two axis joystick)

The model 100 is a two axis joystick with a choice of five black stick handles. The unit is provided with a selection of mounting bezels to accommodate either front or rear panel mounting. The optional rubber boot seal can also be used.



Note: Overall stick height is 0.20 [5.08] less for miniature joysticks.

970 Park Center Drive
Vista, CA 92083
tel 760.598.2518
fax 760.598.2524
oemsales@chproducts.com
www.chproducts.com



Miniature Joystick

PRODUCTS

Miniature joystick mounting cutout dimension line drawings

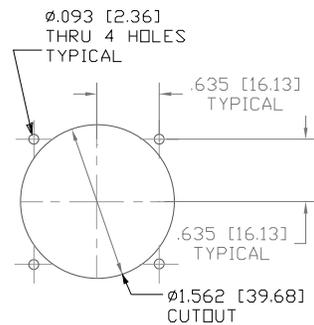
There are a variety of front mount (FM) or rear mount (RM) panel mounting bezels available. These include:

- Option C - Split bezel textured (FM) with 1.562 [39.68] cutout
- Option F - Square bezel textured (RM) with 1.187 [30.15] cutout
- Option L - Rubber boot kit and mounting ring textured (FM) with 1.562 [39.68] cutout
- Option Q - Square bezel snap-on (FM) with 1.25 [31.75] cutout

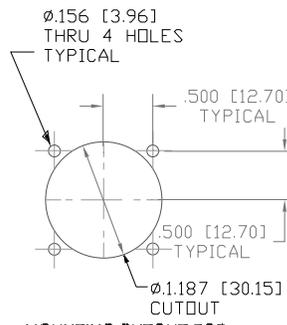
See the Resistive Joysticks Part Number, Configuration & Feature Availability Guide to determine compatibility of bezels to each model.

Notes:

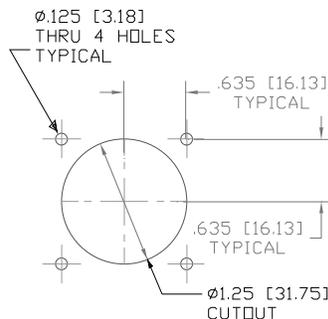
- Model 100 assemblies can use any of the bezels shown (does not apply to Ball Tip handle #600-017).
- Model 200, 300, and 400 assemblies can be provided with split bezel (Option C) or rubber boot kit (Option L).
- All front mount bezels are sent with two sets (4 screws per set) of mounting screws (1/2" and 5/16" with 2/56 threading, black anodized, Phillips flathead). 3/8" screws are available as an option.
- All rear mount bezels are sent with two sets of mounting screws (1/2" and 1/4" with 2/56 threading, Phillips flathead). 5/16" screws are available as an option.
- Mounting screws for snap-on and rear mount bezels are not anodized.
- Joysticks ordered with housings are available only with the computer bezel (Option O) which is similar to the square bezel (Option F).
- Both the rubber boot kit (Option L) and the snap-on bezel (Option Q) add additional cost to the joystick.



MOUNTING CUTOUT FOR ROUND FRONT MOUNT BEZELS (C & L)



MOUNTING CUTOUT FOR SQUARE REAR MOUNT BEZEL (F)



MOUNTING CUTOUT FOR SQUARE SNAP-ON FRONT MOUNT BEZEL (Q)



Miniature Joystick

PRODUCTS

Miniature joystick mounting bezel pictures



OPTION C
Split Bezel Textured
Front mount (FM)
Cutout = 1.562" [39.68mm]



OPTION F
Square Bezel Textured
Rear mount (RM)
Cutout = 1.187" [30.15mm]



OPTION L
Rubber Boot Kit and
Mounting Rig Textured
Front mount (FM)
Cutout = 1.562" [39.68mm]



OPTION Q
Square Bezel Snap-on
Front mount (FM)
Cutout = 1.25" [31.75mm]
(Bezel covers screws)



Resistive Joysticks

PRODUCTS

Part Number, Configuration & Availability Guide

DESCRIPTION	KEY DESIG	FEATURE	FEATURE AVAILABILITY											
			S	S	S	S	M	M	M	M	C	C	C	C
Joystick Type	S	Standard	X	X	X	X	X	X	X	X	X	X	X	X
	M	Miniature					X	X	X	X				
	C	Compact									X	X	X	X
Model Number	1	100 - 2 Axis	X				X				X			
	2	200 - 2 Axis with pushbutton		X				X				X		
	3	300 - 3 Axis			X			X				X		
	4	400 - 3 Axis with pushbutton				X			X				X	X
Construction	0	Nylon plastic	X	X	X	X					X	X	X	X
	1	Wellamid	X	X	X	X	X	X	X	X				
Mounting Bezel	A	Round cup - textured (FM)	X											
	C	Split bezel - textured (FM)	X	X	X	X	X	X	X	X				
	F	Square bezel - textured (RM)	X				X							
	O	Computer bezel	X	X	X	X					X	X	X	X
	L*	Rubber boot kit (FM)	X	X	X	X	X	X	X	X				
	Q*	Square bezel snap-on (FM)	X				X							
	U*	Round bezel snap-on (FM)	X	X	X	X								
	X	Without bezel	X	X	X	X	X	X	X	X				
Centering	0	Spring centering	X	X	X	X	X	X	X	X	X	X	X	X
	1	Friction Clutch	X	X	X	X								
	3*	Center detent - X axis	X	X	X	X								
	4*	Center detent - Y axis	X	X	X	X								
	5*	Center detent - both axes	X	X	X	X								
	6*	Torque set (friction)	X	X	X	X	X	X	X	X				
Stick handle	3	Concave tip - long (600-024)	X				X				X			
	4	Pushbutton - Option 4		X				X				X		
	5	Pushbutton - Option 5		X				X				X		
	6	Straight tip - Short (600-020)	X				X				X			
	7	3rd axis - A model			X					X			X	
	8	3rd axis - B model			X				X				X	
	9	3rd axis with pushbutton				X				X				X
	A	Straight tip - Mid (600-019)	X				X				X			
	B	Straight tip - Long (600-018)	X				X				X			
	C*	Ball tip (600-017)	X				X				X			
	E*	Pushbutton - Option E		X				X				X		
	G	Pushbutton - Option G		X				X				X		
	X	Without handle	X				X				X			
Trim	0	Above panel trim	X	X	X	X					X	X	X	X
	1	Below panel trim	X	X	X	X	X	X	X	X	X	X	X	X
	9	Unassembled	X	X	X	X	X	X	X	X				
Potentiometer	B	Clarostat 5K	X	X	X	X	X	X	X	X	X	X	X	X
	C	Clarostat 10K	X	X	X	X	X	X	X	X	X	X	X	X
	J	CTS (HP100) 100K	X	X	X	X					X	X	X	X
	L	CTS (HP130) 130K	X	X	X	X					X	X	X	X
	P	Copal (CRV-16) 5K	X	X	X	X	X	X	X	X	X	X	X	X
	R	NEI Sensorcube 5K	X	X	X	X	X	X	X	X	X	X	X	X
	U	NEI Sensorcube 10K	X	X	X	X					X	X	X	X
	W	Without pot	X	X	X	X	X	X	X	X				
Z	Special pot	X	X	X	X									

* Additional charge