

TS series Hall effect miniature proportional joystick

an APEM Group Company



The TS Series Thumbstick is a proportional two axes joystick in a miniature package. Featuring non-contacting Hall effect technology for long life performance, the TS Series Thumbstick is available with multiple linear output options including single and dual (redundant) outputs. It is similar in size and operation to "gamepad" controls, but in a rugged industrial package. Typical applications include pendant and remote controls as well as joystick handle and arm rest integration.



KEY FEATURES

- 1 or 2 axes
- Non-contact Hall effect technology
- □ Submersible to 1m (3.28ft) per IP68
- □ Pressure washable to IP69K
- Redundant outputs available
- Rear or drop-in mounting available

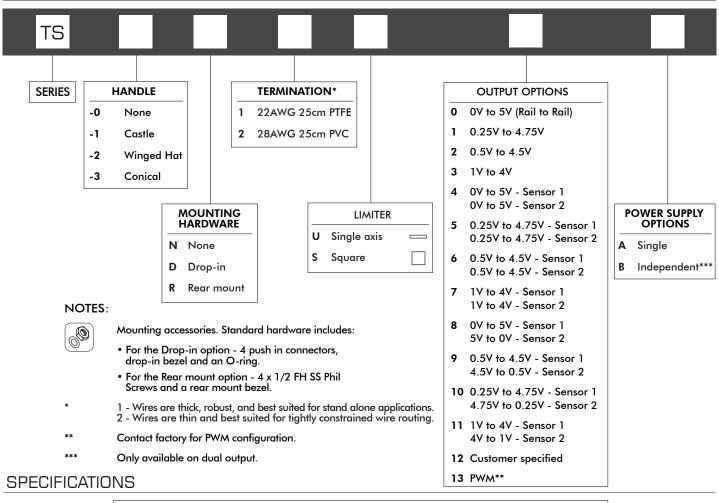




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OPTION SELECTION



MECHANICAL (FOR X, Y AXES)

	•	•
Operating Force	_	3.1N±0.5N (0.70lbf±0.11lbf)
Maximum Vertical Load	_	200N (45lbf)
Maximum Horizontal Load	_	150N (33.7lbf)*
Mechanical Angle of Movement	_	±25° (50° total)
Life Cycles	-	>1 million
Mass/weight	_	18.25g ± 3.0g (0.64oz±0.11oz)
Lever Action (Centering)	-	Spring Centering

ENVIRONMENTAL

Operating Temperature	_	-40°C to +85°C (-40°F to +185°F)
Storage Temperature	_	-40°C to +85°C (-40°F to +185°F)
Sealing	_	IP68, IP69K**
EMC Immunity Level	_	EN61000-4-3
EMC Emissions Level	_	EN61000-6-3:2001
ESD	-	EN61000-4-2

ELECTRICAL SENSOR				
Resolution	_	1.22mV		
Supply Voltage Range	_	5.00V±0.01V		
Reverse Polarity Max	_	-10V		
Overvoltage Max	_	20V		
Output Impedance	_	2Ω		
Return to Center Voltage Tolerance	_	±250mV		
Error Signal	-	1.0%		

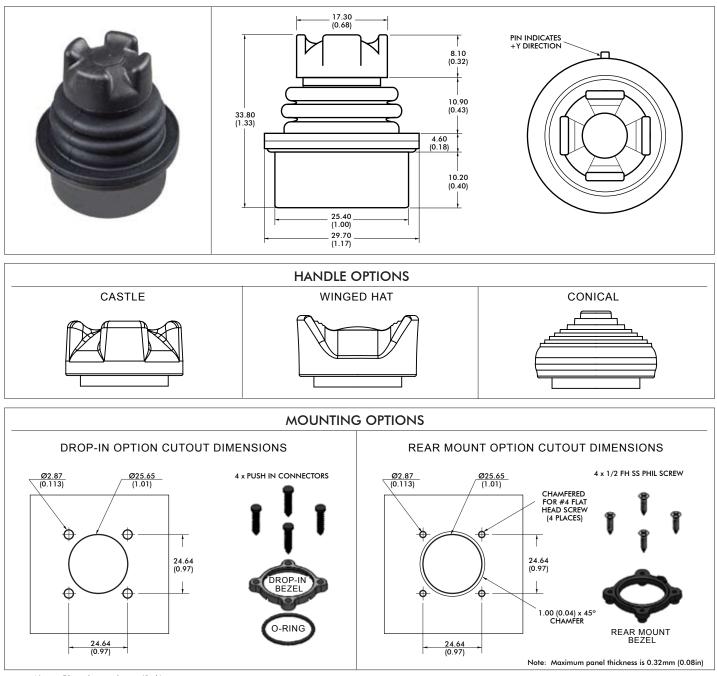
* Force applied to the top of the cap at full displacement.
** All options are IP68 and IP69K rated, however Drop-in mounting does not prevent panel ingress.

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

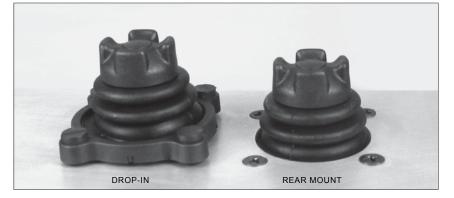
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DIMENSIONAL DRAWINGS



Note: Dimensions are in mm/(inch)

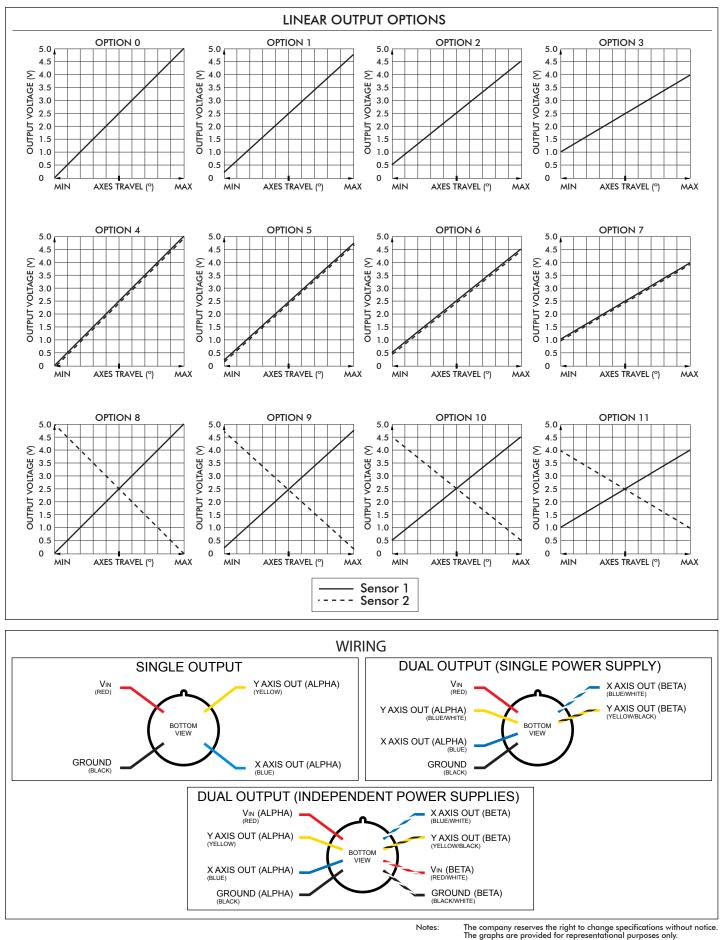


Notes: The company reserves the right to change specifications without notice. The graphs are provided for representational purposes only.

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CONFIGURATION OPTIONS



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