

Data Sheet for Joysticks

Thumb Joystick

Series TRY13m



- 1-axis miniature joystick
- Hall-effect sensor
- Easy snap-in mounting
- Thumb wheel in several colours available
- With analogue voltage output or PWM

The TRY13m is a miniature thumb joystick. Compact dimensions allow high component density, making the TRY13m an ideal choice when space is limited. The TRY13m joysticks can be integrated into handheld joysticks (e.g. TRY81), mobile or stationary operator panels and remote controls.

Electrical Data

Sensor	Hall Effect
Supply voltage	5 ± 0.5 VDC transient free
Resolution	1,22 mV
Return to center voltage tolerance	±200 mV
Output signal	0 to 5 V / 0.25 to 4.75 V / 0.5 to 4.5 V / 1 to 4 V / PWM
Current consumption max.	ca. 8 mA
Output impedance	2 Ω

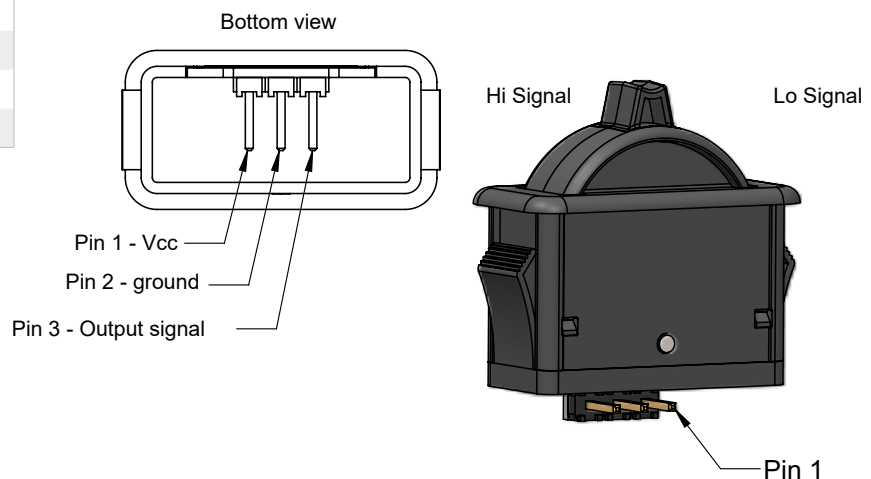
Mechanical and Environmental Data

Mechanical angle of movement	±45° from center
Expected life	3 million cycles
Sealing	Electronics only waterproof (conformal coating of PCB)
Operating temperature	-40 °C up to +85 °C
Storage temperature	-40 °C up to +85 °C
EMC immunity level	EN61000-4-3
EMC emissions level	EN61000-6-3:2001
ESD	EN61000-4-2

Wiring

Function	Pin
Vcc	1
Ground	2
Output signal	3

Connection with 3-position connector (2.54 mm pitch).
Please contact us for project specific wiring and connectors.



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Order Code

Series	TRY13m					
Axes: 1 Axis	1					
Square Form		0				
Spring Return			1			
Thumbwheel: Black Grey Black with Tab Grey with Tab					1 2 5 6	
Output Signal: 0 to 5.0 V (rail to rail) 0.5 to 4.5 V 1.0 to 4.0 V 0.25 to 4.75 V Pulse Width Modulation (PWM)						1 2 3 4 P
Connection: 3 pin header, 2.54 mm pitch						S

Example:
Integration into hand-grip joystick (e.g. TRY81). TRY13m with and without tabs (red not available).



Comparison: TRY13 and TRY13m



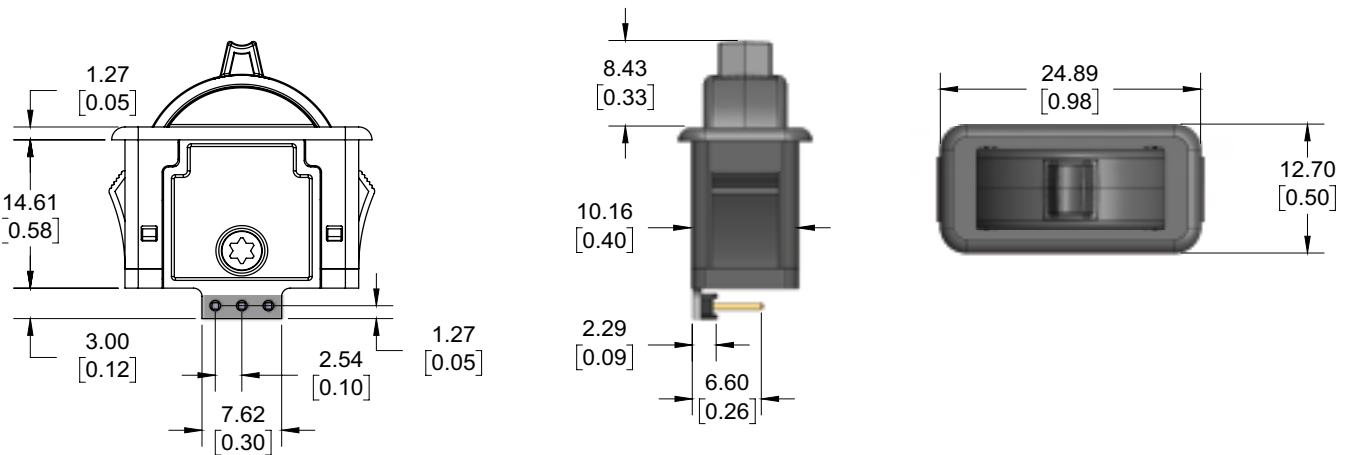
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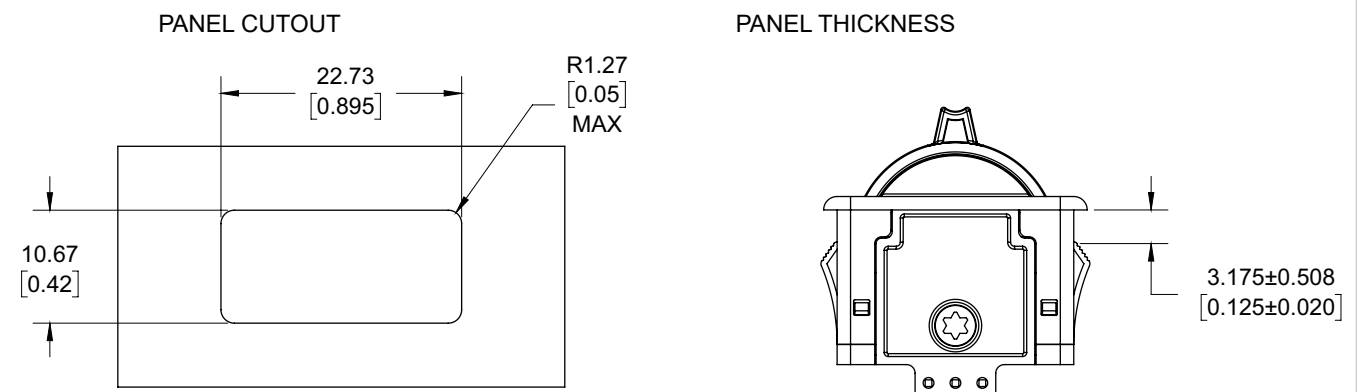
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Drawing



Mounting



All dimensions in mm (inch).