

# Data Sheet for Joysticks

Thumb Joystick

Series TRY13m



- 1-axis Miniature Joystick
- Hall-Effect Sensor
- Easy Snap-In Mounting
- Thumb Wheel in several colors available

The TRY13m is the little brother of our TRY13: A thumb joystick in miniature size. Compact dimensions allow high density of components, making the TRY13m an ideal choice when space is limited. The TRY13m joysticks can be integrated into hand-gripped joysticks (e.g. TRY81), or into mobile or stationary user panels and remote controls.

## Electrical Data

Sensor	Hall Effect
Supply Voltage	5 VDC ±0,5 VDC transient free
Resolution	1,22 mV
Return to Center Voltage Tolerance	±200 mV
Output Signal	0..5 V / 0,25..4,75 V / 0,5..4,5 V / 1..4 V
Current Consumption max.	ca. 8 mA
Output Impedance	2Ω

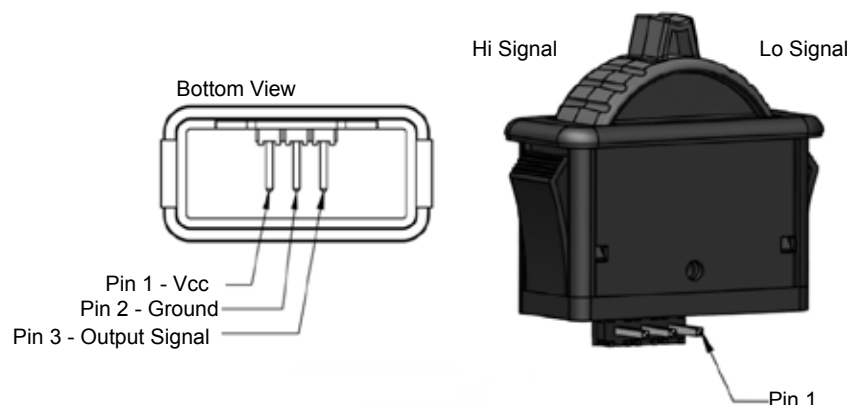
## Mechanical and Environmental Data

Mechanical Angle of Movement	±45° from center
Expected Life	3 million cycles
Sealing	Waterproof (Conformal Coating of PCB)
Operating Temperature	-40°C .. +85°C
Storage Temperature	-40°C .. +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 3position connector (2,54mm pitch).  
Please contact us for projectspecific wiring and connectors.



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## Order Code

<b>Series</b>	TRY13m				
<b>Axes</b>					
1 Axis	1				
<b>Square Form</b>		0			
<b>Spring Return</b>			1		
<b>Thumbwheel</b>					
Black				1	
Grey				2	
Red				3	
Blue				4	
Blue with Tab				5	
Grey with Tab				6	
Red with Tab				7	
Blue with Tab				8	
<b>Output Signal</b>					
0 .. 5,0V (rail to rail)					1
0,5 .. 4,5V					2
1 .. 4V					3
0,25 .. 4,75V					4
<b>Connection</b>					
3position connector, 2,54mm pitch					S

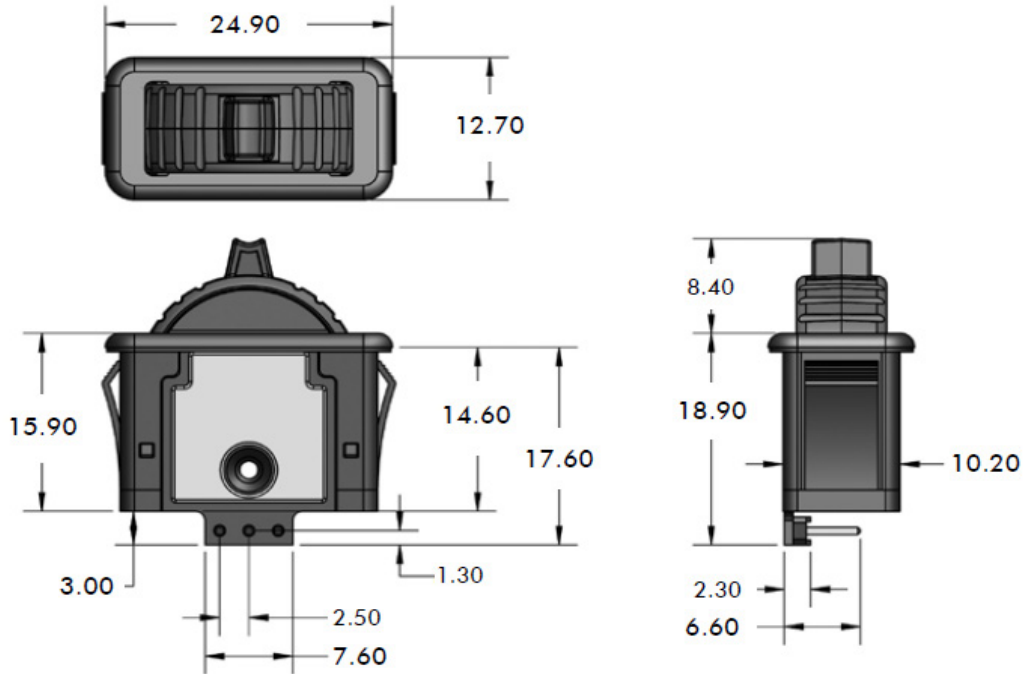
Example:  
Integration into hand-grip joystick (e.g. TRY81). TRY13m with and without Tabs.



Comparison: TRY13 and TRY13m

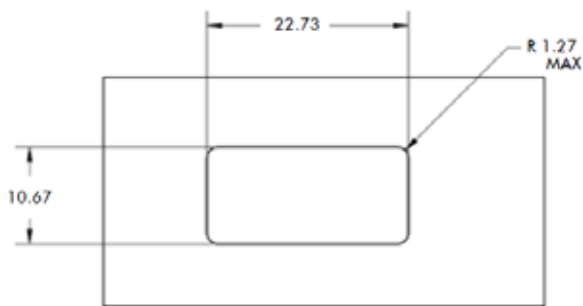


## Technical Drawing

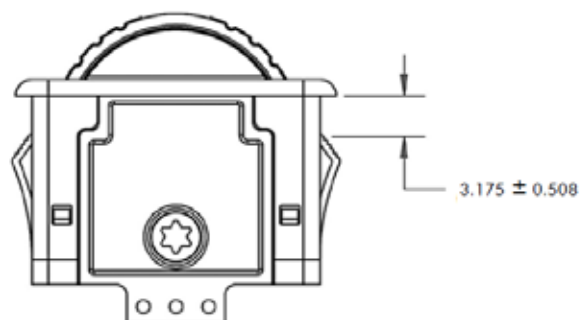


## Mounting

PANEL CUTOUT



PANEL THICKNESS



All dimensions in mm.