TRB SERIES

SINGLE-AXIS MINI HALL-EFFECT JOYSTICK

The TRB joystick is a small, finger joystick developed for remote control units in technical vehicles, industrial applications. It is a single-axis mini-joystick with spring return, ±30° operating angle, and an optional tip lock. Its main features are as follows:

- Compact solution
- Proportional analog output
- Contactless Hall-effect sensor
- Very high resolution
- Center return
- Easy mounting
- Various cap colors
- Redundant outputs available

Mechanical specifications

Mechanical specifications	
Mechanical angle	± 30°
Operating torque	2,5-3N (50 N max)
Mechanical life	5 millions
Storage temperature	-20°C ~ +85°C
Operating temperature	-20°C ~ +85°C
Sealing	IP67

Electrical specifications:

Electrical specifications	
Power supply	5 ± 0.5 VDC
Current consumption	16 mA / Hall Effect Sensor
Output signal	0 ~ 100%Vcc
Independent linearity	± 2 %
Maximum voltage	15 VDC
Max. reverse polarity voltage	14.5 VDC
Load resistance	>10 kΩ
Output signal deflection	< 1 % Vcc
Dielectric strength	1min (500V.A.C)

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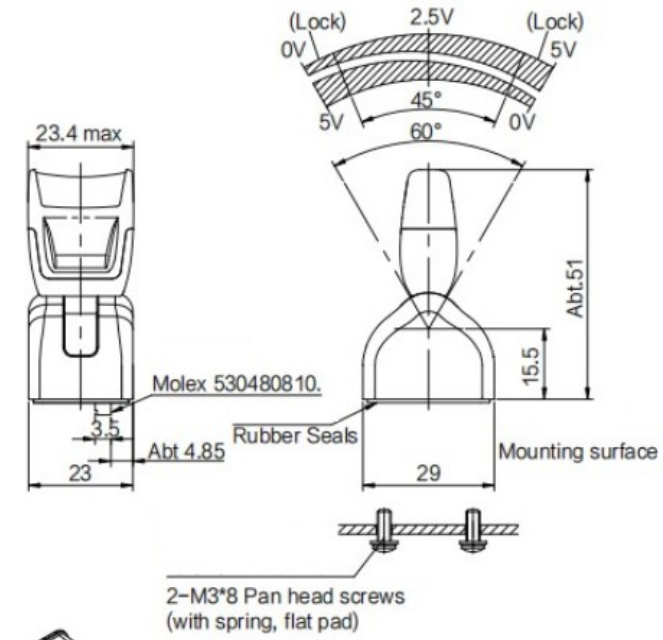
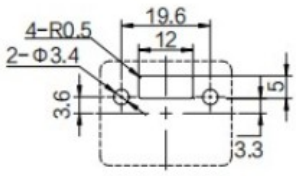
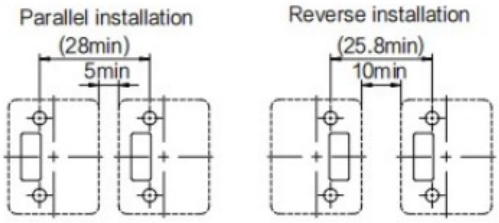
Technical drawing:

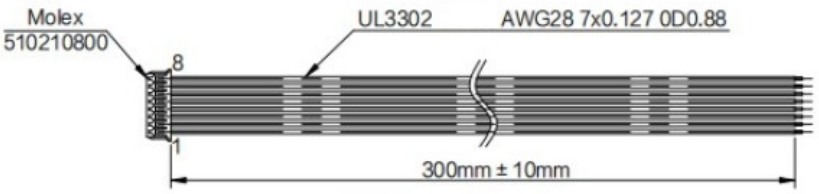




Installation panel drilling diagram

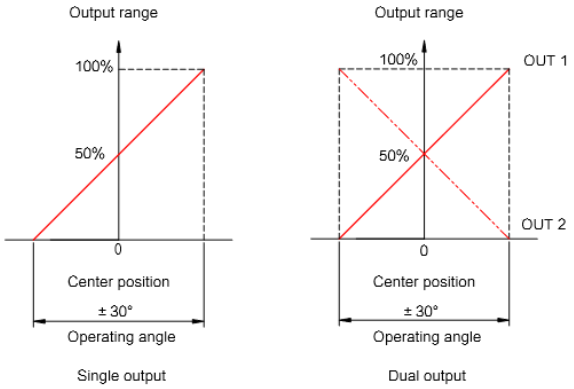


Combined installation diagram



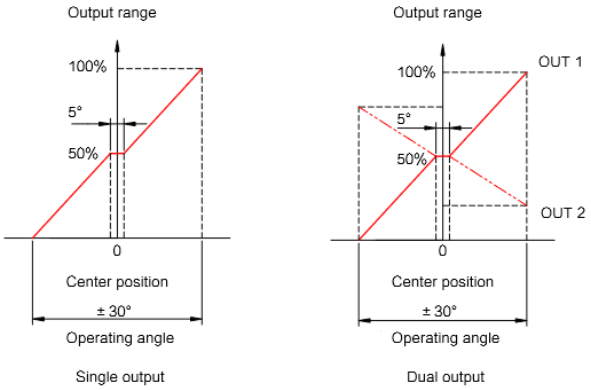
Accessory lines Diagram

Output characteristics :



(Output deviation of center position): <3%Vcc

Figure 1



(Output deviation of center position): <1%Vcc

Figure 2

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	Axis	Center return	Mechanical lock (Start and end of travel)	Color cap	Output type	Input/Output	Output characteristics
	1 Axis	**5** :Spring return	**1**: Without **2**: With	**1:** Black **2**: Red **3**: Yellow **4** : Green	**1** : Linear **2** : With central dead zone	**1** :5VDC ± 10% / 5VDC ± 10%	**S** : Simple **RP** :Parallel Dual Output **RI** : Cross Dual Output

Configuration example : TRB 1 5 1 3 2 1 RP --> 1 Axis / spring return / Without mechanical lock
Yellow handle cap / With central dead zone
Power supply 5VDC ± 10% Output 5VDC ± 10% / Parallel Dual Output

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