

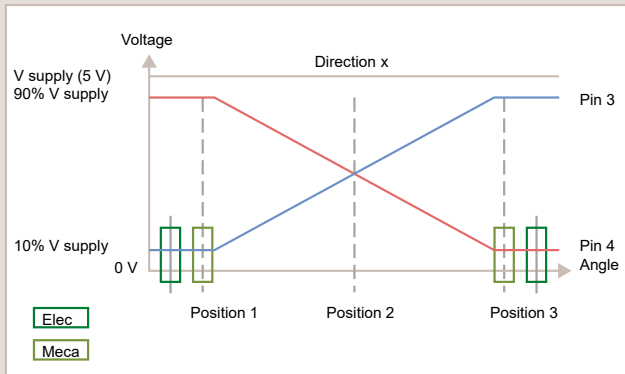
MONO VIBRO FINGER JOYSTICK

Due to its space-saving design and precise controllability, the MONO VIBRO finger joystick is the ideal solution in limited installation space. The single-axis joystick's cap consists of two parts, the inner part can be laser-engraved with both standard and customer-specific symbols. The outer part is available in several colours.

The modular design allows it to be used in a wide number of industrial applications. The MONO VIBRO finger joystick provides the operator with haptic feedback through vibration so that he can react correctly to the relevant situation.

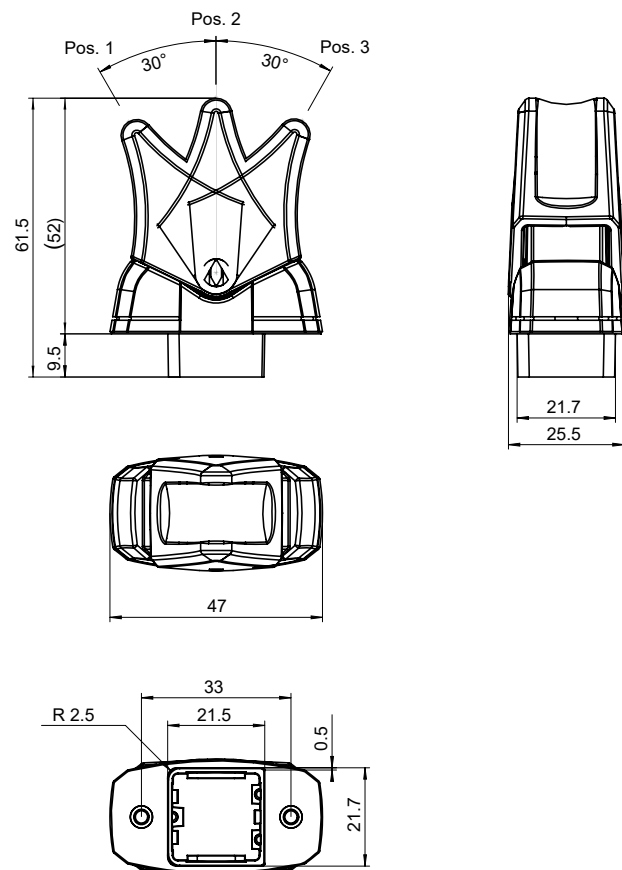
- Central zero position
- Angle of rotation $\pm 30^\circ$
- Contactless Hall-effect sensor technology
- Two analogue signals, X characteristic
- Sensitive control
- Ergonomic design
- Protection class IP 68 according to DIN EN 60529, electronic
- IP 5X vibration area, electronic
- Long service life of 5 million cycles, analogue output
1 million cycles, vibration area
- EMC in accordance with EN 12895: 2015-09
- EMC 100 V/M in accordance with ISO 11452-2
- Functional safety in accordance with
EN ISO 13849, PL d
- Haptic feedback with vibration
- Start and duration of vibration is configured
by customer

Transmission protocol



Technical data	
Technology	Contactless hall sensors
Mechanical data	
Dimensions	See drawing
Mechanical angle of rotation	$\pm 30^\circ\text{C}$
Electrical data	
Rated voltage	5 VDC ± 0.02 V
Operating voltage range	4.5 – 5.5 V DC (ratiometric output)
Power current	< 70 mA
Analogue output @5 V	X characteristic: 0.5 – 4.5 VDC
Operating conditions	
Operating temperature	-30°C to +65°C
Storage temperature	-40°C to +85°C
Maximum force	0.09 Nm
Actuation force	4.8 Nm
Service life	5 million cycles, analogue output 1 million cycles, vibration area
Protection class	IP 68 according to DIN EN 60529, electronic IP 5X vibration area, electronic
EMC	EN 12595: 2015-09 100 V/M in accordance ISO 11452-2

Dimensions [mm]



Connector pin assignment Molex Mini-Fit Jr.™	
6 pin, dual row 39012040	
PIN 1	+ 5 V
PIN 2	GND
PIN 3	Signal 1
PIN 4	Signal 2
PIN 5	Vibration active 5 V
PIN 6	–

Order data	
Part No.	Designation
3203-00981-XX	MONO VIBRO Finger joystick