

## MKF-JS47

Mate Industrial Joystick, Hall effect, Single, Dual, 3 axis Optional, Panel Mounted



### DESCRIPTION

MKF-JS47 is a multi-axis contactless joystick controller is designed for precision fingertip control applications where safety and long trouble-free life are primary requirements. It is available in one, two or three axis configurations and can accommodate a choice of handles, including push-button switch versions. Two mounting flange options allow attachment above or below the panel. Compact size, low operational force and high reliability are ideal for applications which include powered wheelchairs, robotics, UAV, CMM machines, medical and CCTV equipment, professional camera controls and remote controlled chest-packs.

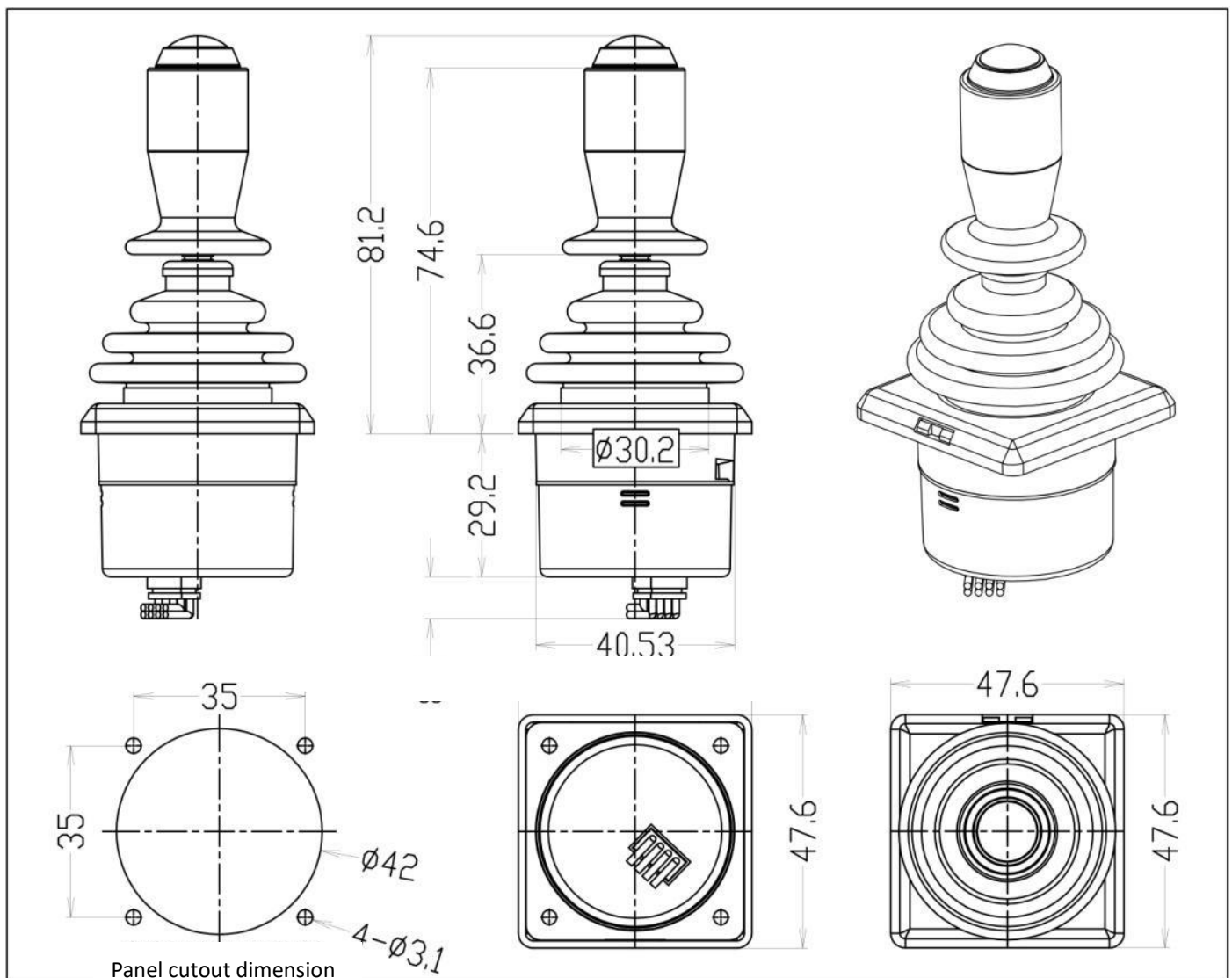
### FEATURES

- Sensor: Hall sensor
- Lever Action (Centering): Spring centering
- Mechanical Angle of Movement:: X and Y axes:  $\pm 20^\circ$ ; Z axis:  $\pm 18^\circ$
- Lever gate profiles (options): Single axis, round, square, cross;
- Signal output: analog voltage, RS485, RS422, RS232, USB, CAN
- Power supply: DC5V, DC12-28V; Power consumption: less than 9-25MA@5V PS
- Electrical life: 1000,000 cycles
- Operating temperature:  $-40^\circ\text{C}$  to  $+70^\circ\text{C}$
- IP Grade: IP67 rated

## SPECIFICATION

Button	1
Operation Range	Circle, Cross, Single
Operation Angle	XY axis $\pm 20^\circ$ ; Z axis $\pm 18^\circ$
Power Supply	DC5V, DC12-24V
Outputs	0-5v(0.5-4.5 optional), RS232, RS485, USB, CAN(2.0B)
Life Span	5 million operating cycles
Material	stainless steel, engineering plastics
Degree of protection	IP65
Operation Temperature	-40°C to +70°C

## TECHNICAL DRAWINGS



## PIN DEFINITION

Lead length: 24 AWG,20cm (including Connector)

Terminal model: PHD2.0-8P

Pin definition of connector -(1,3 axes)analog voltage signal output:

### Single sensor

Pin	Symbol	Color	Remark
1	V+	Red	Power +
2	Y	Green	Y Output
3	GND	Black	GND (Power -)
4	X	Yellow	X Output
5	B	White	Button (the 1st pin of button)
6	Cen	Brown	Central potential signal (not essential)
7	Z	Blue	Z Output
8	B	White	Button (the 2 <sup>nd</sup> pin of button)