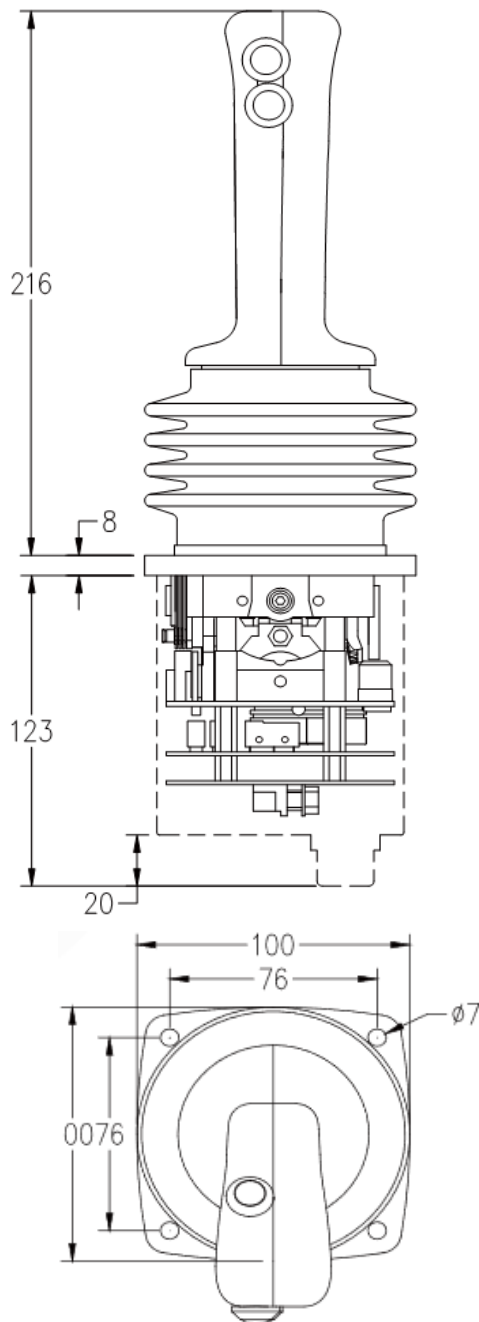


Industrial joystick MJ 2K

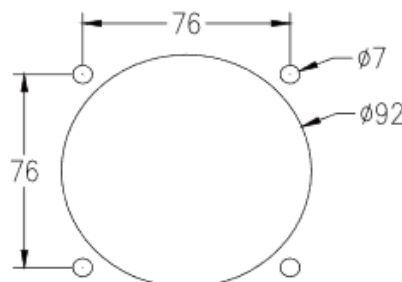
MJ2K joysticks offer high-intensity lever and excellent proportional control. They are mainly used in hydraulic or variable frequency motor control such as rotary tables, cranes, work platforms, This joystick is available in one, two or three axes. It can be supplied with contactless Hall effect sensors or long life potentiometers,

INDUSTRIAL JOYSTICK



- Potentiometers or Hall sensors.
- Large choice of handles
- 1 , 2 or 3 axes (Thumbwheel)
- Proportional control and switch output
- Resistant to oil, maritime climate, ozone and UV radiation
- Protection grade IP64
- Analog proportional control or CAN bus 2.0 or RS232 output signal

M6 mounting
Front panel mounting



Technical Information

Environmental characteristics

Storage Temperature	-50 ~ +80 °C
Operating Temperature	-40 ~ +80 °C
Protection Grade	IP64
Vibration	3g, 10 ~ 200 Hz
Impact	20g, 6 ms, semi-sinusoidal

Mechanical characteristics

Mecanical Angle	Potentiometer:32 °,Hall sensor:20°
Operating Torque	5 ~ 50 N
Mechanical Life	5 Millions
Mechanical Error	± 0,5 °

Hall effect sensors

Power supply Voltage	5 ±0,5 V DC
Curent Consumption	6,5 mA
Resolution Ratio	Infinite
Load Resistance	5 kΩ
Median Voltage (no-load)	48 ~ 52 %




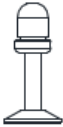
Potentiometers

Resolution Ratio	infinite
Resistance (±10%)	5 kΩ or 10 kΩ (1,2,and 20 kΩ upon request)
Electrical Angle	±32 °
Output Voltage Range (relative)	0 ~ 100 % or 10 ~ 90 %
Median Voltage	48 ~ 52 %
Maximum Load Voltage	32 V DC
Maximum Power Consumption (25 °C)	0,25 W

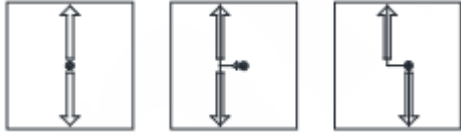
Wiring

Multicore numbered cable, length 1m. The wiring is provided on delivery.

Handle Type

Type	Style	Functions	Dimensions
MH9		Multi-combinations	Refer to datasheet MH9
MH10		Multi-Combinations Deadman / Trigger	Refer to datasheet MH10
MH11		With or without button. Pushbutton / Self-lock button	Ø 67 x 120
MH50		Pull to release	

Product Configuration

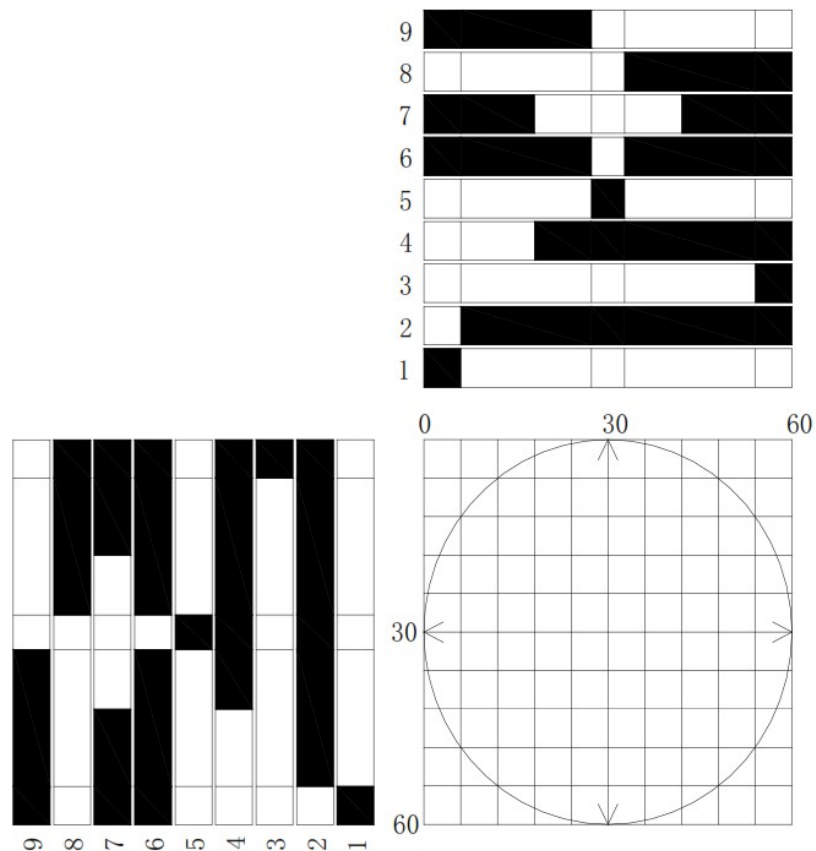
No.	Item	Content
1	Serie	MJ2K
2	Operation Mode	F. Friction S. Spring Return L. Friction & Self-lock
3	Limiter Plate	 <p>Y Y2 Y3</p> <p>P. Cross (X & Y) Q. Square</p>
4	Electrical Output Form With Hall Sensors	H100. Input. 5V DC, Output 0~2,5~5V (Rail to Rail)
		H80. Input. 5V DC, Output 0,5~2,5~4,5V
	Electrical Output Form With Potentiometers	POT (VALUE). Standard potentiometer(s)
		CT (VALUE). With center tap
		2410. Input. 24V DC, Output 0~10V
		2410A. Input. 24V DC, Output -10~0~10V
		2410S. Input. 24V DC, Output 10~0~10V
		2405. Input. 24V DC, Output 0~5V
		2405A. Input. 24V DC, Output -5~0~5V
		2405S. Input. 24V DC, Output 5~0~5V
2442. Input. 24V DC, Output 4~12~20mA		
2422. Input. 24V DC, Output 20~4~20mA		
5	Number of Microswitches	00, 01, 02 or 03. (quantity)
6	Microswitches Positions	Refer to 'Common Closed Position' table
7	Handle Type	MH9, MH10, MH11 or MH50
8	Mounting Type	M6 : 76x76 central hole Ø 92

Example : **MJ2K – S – P – CT (10K) – 02 (55) – MH10 – M6**

MJ2K : Industrial joystick

- **S** : Spring return device
- **P** : 2 axis with cross limiter plate (X & Y axis)
 - **CT (10K)** : 10 kΩ potentiometers with center tap option
 - **02** : With 2 mechanical microswitches
 - **(55)** : Switches configuration type 55 (center detect for each axis)
 - **MH10** : Handle type MH10
 - **M6** : Mounting type M6

Common Closed Position :



Example : '51' = center detection switch on X and beginning switch on Y

N.B : Combination of detection switches 7,8,9 and potentiometric sensor not available.