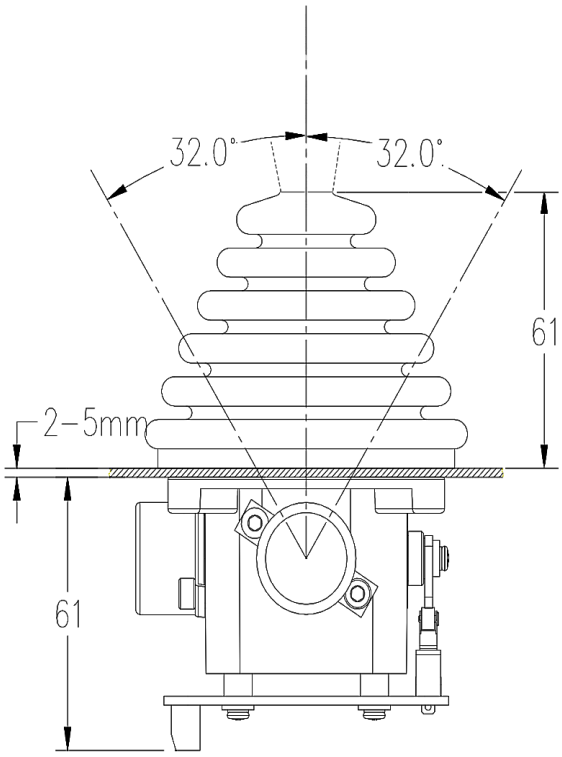
MJ100

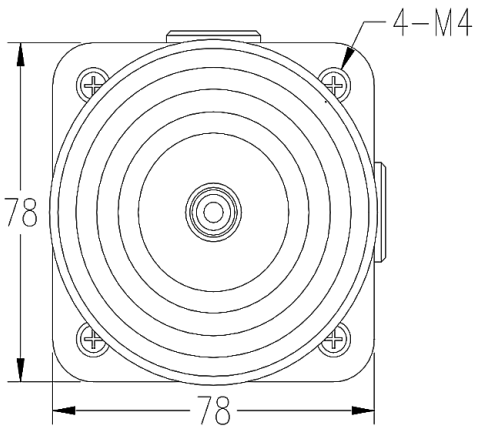
INDUSTRIAL JOYSTICK

Industrial joystick MJ100

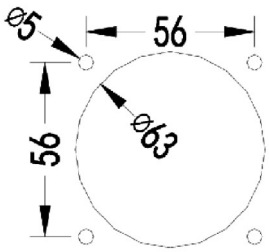
MJ100 joysticks offer high-intensity lever and excellent proportional control. They are mainly used in hydrolic or variable frequency motor control such as rotary tables, cranes, work plateforms,…

- Potentiometers or Hall sensors
- Large handles choice
- 1 , 2 or 3 axes (thumbwheel)
- Proportional control and switch output
- Many different configurations



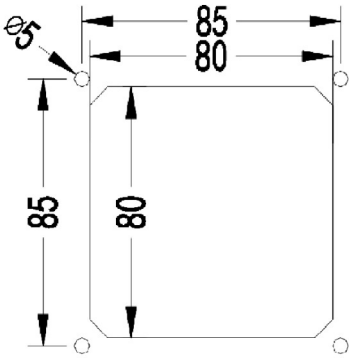


Mounting type M1 (except. MH10)



Rear Mounting

Mounting type M7 (with MH10)



Front mounting

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Technical Information

Environnement Parameters	
Storage Temperature	-50 ~ +80 °C
Operating Temperature	-40 ~ +80 °C
Protection Grade	IP64 , IP67*
Vibration	3g, 10 ~ 200 Hz
Impact	20g, 6 ms, semi-sinusoidal

Mechanical Parameters	
Mecanical Angle	32 °
Operating Torque	5 ~ 50 N
Mechanical Life	5 Millions
Mechanical Error	± 0,5 °

Hall 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 %
Standard version	With dead zone

Potentiometers	
Resolution Ratio	infinite
Resistance (±10%)	5 kΩ or 10 kΩ (1, 2 et 20 kΩ on 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

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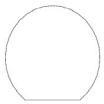
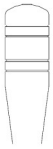
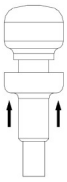
Handle Type

Type	Style	Functions	Dimensions
MH1		Push Button Self-lock Button	Ø 30 / L 60
MH2			Ø 32
MH4		Push Button Self-lock Button	Ø 30 / L 87
MH5		Pull to release Only available with friction .	Ø 30 / L 60
MH7		Push to release or Push Button	Ø 34/45 / L 105
MH8			Ø 40 / L 58
MH10		Multi-Combinations Deadman / Trigger	Refer to datasheet MH10
MH15		Rocker Deadman - Trigger	Refer to datasheet MH15

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Product Configuration

No.	Item	Content
1	Serie	**MJ100**
2	Operation Mode	**F**. Friction (Available for joystick 1 axis) **S**. Spring Return **L**. Friction & Self-lock (Only with MH5 handle, and with joystick 1 axis or 2 axes with cross limiter plate)
3	Limiter Plate	**X**. X Axis **Y**. Y axis **P**. Cross (X & Y) **Q**. Round **S.** Square
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. 24VDC (12 to 30V), Output 4~12~20mA
		2424. Input. 24VDC (12 to 30V), Output 20~4~20mA
5	USB Output	**USB**: USB joystick output
6	Number of Microswitches	**00, 01**, **02** or **03**. (quantity)
7	Microswitches Positions	Refer to 'Common Closed Position' table
8	Handle Type	**MH1**, **MH2**, **MH3**, **MH4**, **MH5**, **MH7**, **MH8**, **MH10** or **MH15**
9	Mounting Type	**M1** / **M7 *** with MH10 Handle (others on request)

*** Higher sealing protection (IP67) available for M7 mounting and single handle without knob, toggle and knob. Don't hesitate to consult us.**

**** Joysticks with USB interface are supplied with their cable (Lenght 1,5m) equipped with a USB type A connector.**

Example : **MJ100 – S – P – CT (10K) – 02 (55) – MH2 – M1**

MJ100 : Industrial joystick

- **S** : Spring return device
- **P** : 2 axes with cross limiter plate (X & Y axes)
- **CT (10K)** : 10 kΩ potentiometers with center tap option
- **02** : With 2 mechanical microswitches
- **(55)** : Switches configuration type 55 (center detect for each axis)
- **MH2** : Handle type MH2
- **M1** : Mounting type M1

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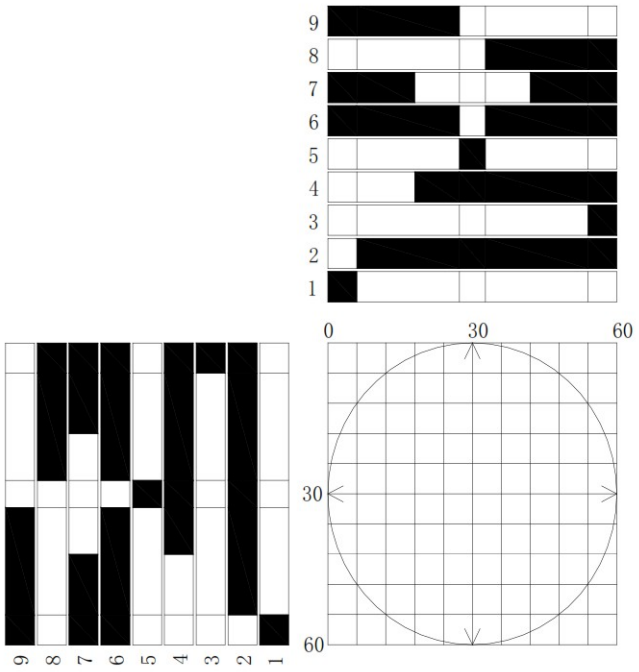
Common Closed Position :



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

N.B.: Configuration '13' Start and end of stroke microswitches only available for 1 axis joysticks.

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