

JS12 系列电控手柄 JS12 Series of Joystick

➤ 产品介绍 Product Description

JS12是一款可广泛用于电液控制的结构紧凑、可靠和坚固的手柄。

JS12 is a compact joystick with reliable and robust mechanism, and commonly used in electro-hydraulic applications.

JS12可实现重载应用条件下额定500万次循环。

JS12 achieves rated 5 million operation cycles under heavy-duty application conditions.

丰富的输出选项，搭配多种上端，使得JS12可高度定制化。

With many outputs and grip options the JS12 series is highly customizable.



➤ 产品特点 Product Features

- 非接触式霍尔效应技术
Contactless--Hall effect technology
- 双轴控制
Double-axis control
- 一字、十字、万向限位
slot, cross and open gate
- 弹簧复中和摩擦定位（仅单轴）两种基本功能
two basic models of Spring Return and Friction Brake(only single axis)
- 底座结构紧凑，直径小于66mm，面板下深度小于61mm
Compact size with diameter less than 66mm and under-panel depth less than 61mm
- 法兰兼容56.5*56.5mm, 61*61mm, 62.2*62.2mm三种安装尺寸

➤ 产品特点 Product Features

- 5Vdc 或 9-30Vdc 供电
5Vdc 或 9-30Vdc power supply
- 输出信号：模拟量（电压、电流）、数字PWM、开关量和CAN总线
Outputs options with analog(voltage,current), PWM(digital),switching and CAN bus
- 多种上端选项
Choice of multiple grips
- 电子部分密封等级为IP67
Electronics sealed to IP67

➤ **主要技术参数 Primary Technical Specifications**

机械性能 Mechanical Specifications

偏转角度	Mechanical operating angle	XY axis: $\pm 20^\circ$ max.
轴向限位类型	Gate type	slot, cross and open gate 一字、十字、万向限位
操作力	Operating force	4~25N
(底座)使用寿命	(Base) Operation cycles	5 million cycles 500 万次
重量	Weight	1050g

电气性能 Electrical Specifications

传感类型	Sensor type	Contactless hall-effect 霍尔
供电电压	Supply voltage	9-32 Vdc, $5 \pm 10\%$ Vdc
输出信号	Outputs	Analog voltage and current, digital PWM, switching and CAN bus 模拟量、数字 PWM、开关量、CAN 总线
解析率	Resolution	12 bit
中位精度(模拟量)	Neutral position accuracy(analog)	Max 3.0% FS
中位死区(CAN)	Neutral position deadzone(CAN)	$\pm 5\%$ as standard
输出迟滞	Delay time of output signal	approx. 3ms
过压保护	Over-voltage proof	yes
电源反接保护	Reverse polarity protection	yes

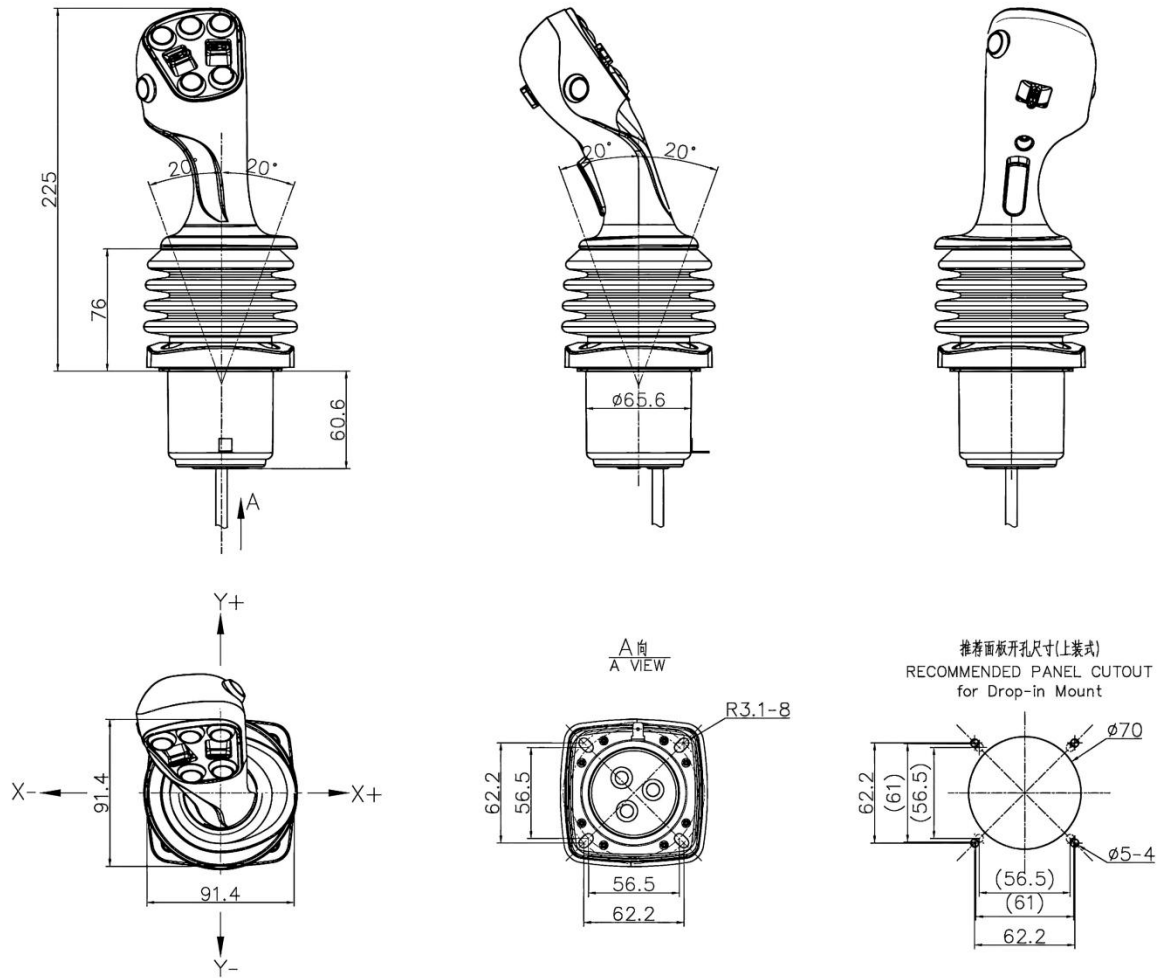
环境特性 Environmental Practices

工作温度	Operating temp. range	-40°C~85°C
防护等级	IP Class	up to IP67
振动测试	Vibration	20g
机械冲击	Mechanical Shock	50g
电磁兼容性	EMI	100V/m
静电	ESD	$\pm 8\text{kV}$ (contact discharge) $\pm 15\text{kV}$ (air discharge)

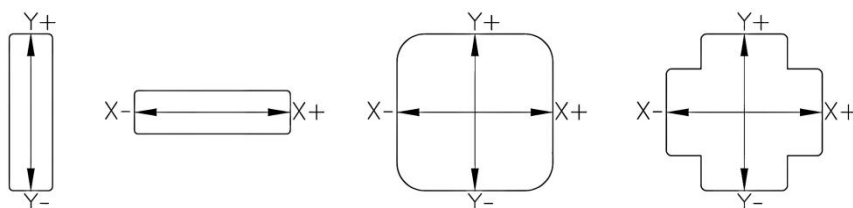
➤ **外形&安装尺寸 Mechanical Dimensions(mm)**

弹簧复中+G010 上端

Spring Return Model with G010 Grip



轴向限位类型 **Gate Type**



➤ 编号规则 Product Code Reference

JS12	SS	0	0	C
底座系列 Base Family Name	轴数及基本功能 Axis Number & Basic Functions	轴向限位类型 Gate Type	操作力 Operation Force	信号输出类型 Outputs Type
JS12	SS- X&Y axis spring return XY 轴,弹簧复位	0- Open gate 万向限位	0- Standard spring force 标准弹簧力	A- analogue
	NS- Y axis spring return Y 轴,弹簧复位	1- Cross gate 十字限位	1- Heavy spring force 较重弹簧力	C- CAN Bus
	SN- X axis spring return X 轴,弹簧复位	2- Slot gate 一字限位	2- Ultra high spring force 超重弹簧力	S- Switching 开关量
	XN- X axis frictionX 轴,摩擦定位			
	NF- Y axis frictionY 轴,摩擦定位			
J	G010	L/R	06	
信号输出 Output	上端系列 Grip Type	左右手 Left or Right hand	其它订制信息:线缆直径,长度,连接器等 Other Customized Details eg. cable length,connectors etc	
1- 4-20 mA,dual 双路	G010	L- Left hand 左手		
2- 4-20 mA,single 单路		R- Right hand 右手		
5- 0.5-4.5VDC ratiometric,single 单路				
6- 0.5-4.5VDC ratiometric,dual 双路				
9- switching 2A 开关量				
J- CAN J1939				
O- CAN open				

➤ **应用Applications**

适用于各类路面机械、港机、叉装车辆、农机、市政及消防车辆。

Applied to various types of road, port, agricultural machinery, telescopic handlers, fire fighting vehicles and Snow Remover.

