

JS16 系列电控手柄 JS16 Series of Joystick

▶ 产品介绍 Product Description

JS16是世通又一款匠心制作的产品。 JS16 is another craftsmanship works of Citoon.

合金底座及轴系等极其坚固的设计,适用于艰巨的应用。JS16可实现重载应用条件下500万次使用寿命。 Extremely robust design with alloy base and shafting is adapted to arduous applications.JS16 achieves rated 5 million cycles under heavy-duty application conditions.

功能丰富且强悍,JS16配得上**万能型底座**的称谓。 With rich, varied and doughty functions,JS16 deserves the title of the **Universal Base**.

双轴均可实现摩擦定位或弹簧复中模块的自由搭配,且不论弹簧复中或摩擦定位,均带有中位定位手感。The modules of Friction-holding and Spring-return-to-centre can be free collocated on both X and Y axes, and either the Friction-holding or Spring-return-to-centre module has the Center detent for enhanced return-to-center performance.

JS16可以搭载全冗余电路: 从霍尔传感器、电源、CPU、CAN芯片到信号输出, 均可以实现完全冗余。 JS16 is capable of being equipped with fully redundant circuits, from hall sensors, power supplies, CPU, CAN chips to outputs, fully redundancy can be achieved on this joystick.

标配使能/在位开关。

Enable/presence switch comes as a standard.

多种轴运动轨迹随心定制:一字、十字、万向、**Z**字、T形、H形等。

Multiple axes motion traces are optional for customization: slot, cross-shaped, universal(squared), Z-shaped, T-shaped, H-shaped



巧妙的接线设计,使得JS16可以搭配功能最丰富的上端,上端可提供多种配置组合——最多3个指拨轮+6个按钮开关,或者12个按钮开关。Ingenious wiring design allows JS16 to be paired with the most functional grips. The grip is available in a variety of configurations - up to 3 thumbwheels+6 push button switches, or 12 push-button switches.

电子部分密封等级为IP69k. Electronics sealed to IP69k.



▶ 主要技术参数 Technical Specifications

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利和性的	Mechanical	specifications
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旋转角度 Mechanical operating angle XY axis: ±25°

操作力 Operating force 4~12N

使用寿命 Life expectancy 5 million cycles

重量 Weight 1.1kg

电气性能 Electrical specifications

传感类型 Sensor type Hall-effect 霍尔

供电电压Applied voltage10-32 Vdc,5±10% Vdc输出信号Effective output模拟量、PWM、CAN

解析率 Resolution 12 bit

精度 Accuracy Max 2.0% FS

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 specifications

工作温度 Operating temp. range -40°C~85°C 储存温度 Storage temp. range -40°C~85°C

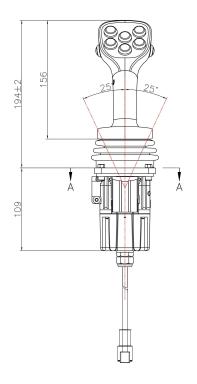
防护等级 IP Class IP67 振动测试 Vabrition 20g 机械冲击 Mechanical Shock 50g 电磁兼容性 EMI 100V/m

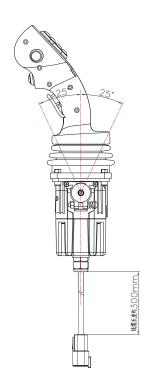
静电 ESD ±8kV (contact discharge)

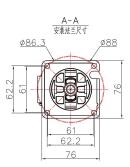
±15kV (air discharge)



▶ 外形&安装尺寸 Mechanical Dimensions(mm)



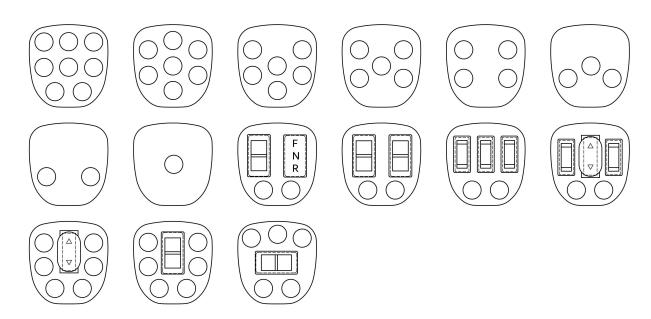




▶ 面板及上端配置 Front Plate and Grip Designation

面板和上端可提供多种配置组合。

The front plate and grip are available in a variety of configurations.



面板配置示例 Front Plate Configuration Samples



▶ <u>编号规则 Product Code Reference</u>

JS16	X1Y2	3	0	0
底座系列	轴向	轴向约束	弹簧回复力	摩擦力等级
Base Family Name	Axis Options	Axial restraint	Spring Return Force	Friction Level
JS16	X0Y1- Y axis spring returnY 轴,弹簧复位	0- Squared 方形限位	0- Standard spring force 标准弹力	0- Friction Level 1
	X0Y2- Y axis friction Y 轴,摩擦定位	1- Cross-shap 十字限位	1- Heavy spring force 加强弹力	1- Friction Level 2
	X1Y1- X&Y axis spring returnXY 轴,弹簧复位	2- Slot 一字限位	2- Ultra high spring force 超强弹力	2- Friction Level 3
	X1Y2- X axis spring return,Y axis frictionX 轴, 弹簧复位;Y 轴,摩擦定位	3- Z-shaped Z字限位		
	X2Y1- X axis friction,Y axis spring returnX 轴,弹 簧复位;Y 轴,摩擦定位	4- T-shaped T 形限位		
	X2Y2- X&Y axis frictionXY 轴,摩擦定位	5- H-shaped H 形限位		

C	J	- G006	L/R -	00
信号输出形式	信号输出	上端系列	左右手或单手	其它订制信息
Electronics Type	Output	Grip Type	Left or Right hand or Unidirectional	Other Customized Details
A- analogue	1- 4-20 mA,dual	G001	L- Left hand grip	
C- CAN Bus	5- 0.5-4.5VDC ratiometric,single	G004	R- Right hand grip	
MR- Modbus RTU	6- 0.5-4.5VDC ratiometric,dual	G005	Blank- Unidirectional	
	J- CAN J1939	G006		
	O- CAN open			



➢ 应用Applications

适用于凿岩台车、压路机、正面吊、采棉机等各类隧道装备、路面机械、港机及农机装备。

It is suited forvarious of tunneling equipments, road, port and agricultural machinery such as tunneling jumbos, road rollers, container lift trucks and cotton pickers etc.







