

AJ21

DUAL AXIS JOYSTICK

The AJ21 series joystick from Sensata Technologies adopts a high-precision hall chip, which has good temperature characteristics and strong anti-interference ability. It provides the accurate control, reliability and long life required in demanding environmental conditions off road and such as heavy vehicle off road, construction, cranes and material handling applications. The AJ21 Joystick is designed to accommodate standard and custom designed multifunction grips (MFGs).



Main Features

- Contactless sensing Hall-effect technology
- Life greater than 7.5 million cycles
- Potted electronics
- Customized baud rate
- High Protection Class (IP65/67)
- Standard or customized multifunction grips

Custom Modifications

- Output characteristics
- Operating force
- Gate pattern
- Over travel function
- Grips



SPECIFICATIONS

Electrical

Rated Supply Voltage	9-36VDC Reverse Power Protection
Maximum Current	Base: 25mA at 24VDC
	With S6/S11 grip: 30mA at 24VDC
Output	CAN SAE J1939
EMC	RS: 150V/M CE/RE: CLASS 4 BCI: 200mA

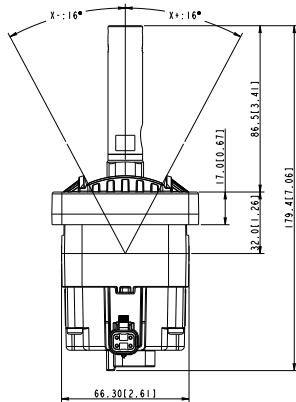
Mechanical

Life	7.5 million cycles
Operating Temperature	-40°C to 85°C
Storage Temperature	-50°C to 90°C
Horizontal Load Maximum	150Nm
Vertical Load Maximum	1000N
Max. Torque (Z-axis)	20 Nm
Protection Class	IP67: Base only or With MFG S6 IP65: With MFG S11
Gate Option ^(A)	Bottom mounting 61x61 mm (2.40x2.40 inch) Top mounting 77x77 mm (3.01x3.01 inch)
Electronics Protection	Fully potted
Lever deflection X/Y Options	Gate Option 0: X:±16°, Y:±20° Gate Option 1: X: ±18°, Y:±23°
Center Null Zone	± 2°
Housing	Zinc alloy
Boot	EPDM (black)

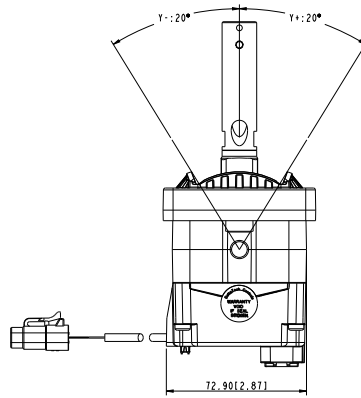
^(A) Others available on request

● DIMENSIONS

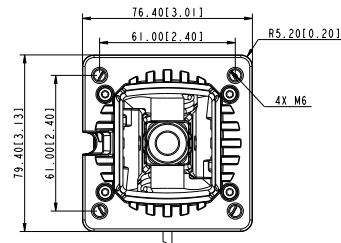
Gate option 0: X:±16°, Y:±20°



X0

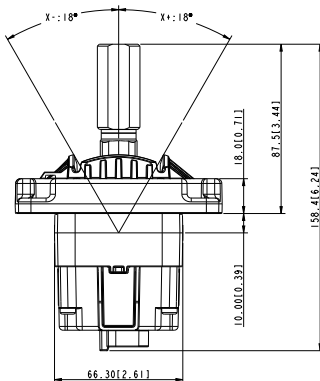


Y0

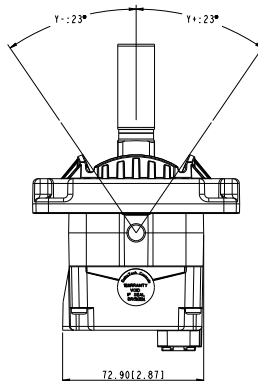


S0

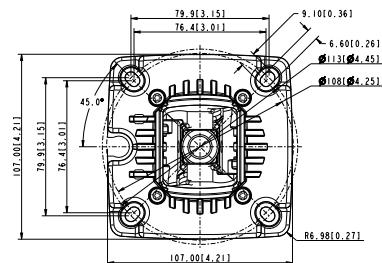
Gate option 1 : X:±18°, Y:±23°



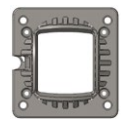
X1



Y1



S1



Square Gate
61 X 61 mm



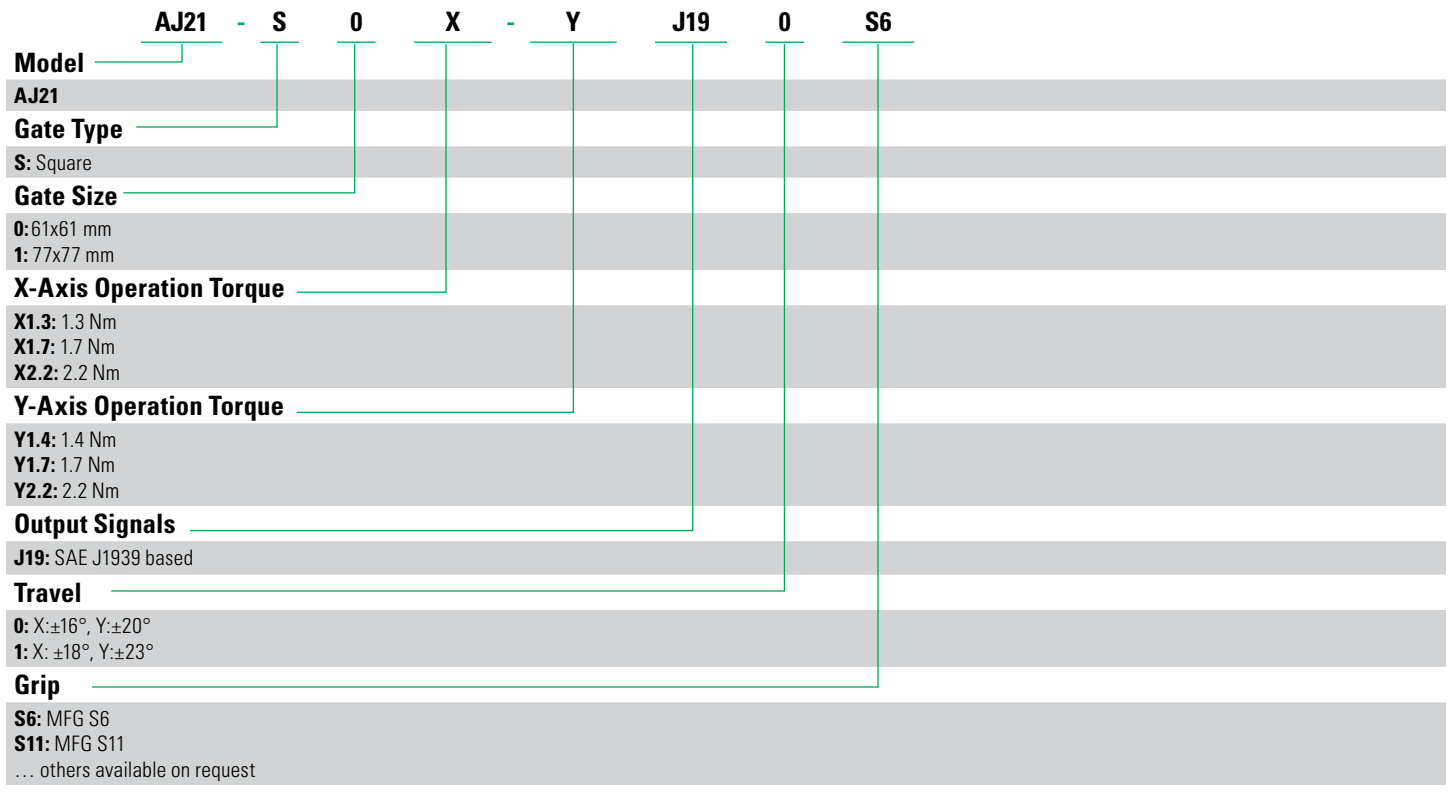
Square Gate
77 X 77 mm



MFG S6



MFG S11



**Recommended Multifunction Grips (MFGs)
Gate & Operating torque combination**

MFG	Gate	Operating torque
S6	77x77 mm	1.7Nm, 2.2Nm
S11	61x61 mm	1.3Nm

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