FINGER TYPE JOYSTICK

AJS 110 Series

"Single Axis, Small Design, Potentiometric Measurement Technology"

- Potentiometric measurement technology
- Single-axis, forward and backward finger operated
- Special design for mobile machines
- Small design and easy installation
- Robust construction, long service life
- Resistant to electromagnetic field
- IP66 protection

The AJS 110 series are joysticks with a small size and ergonomic structure that provide soft and precise fingertip control in a single axis. Thanks to potentiometric measurement technology, they have high resistance to electromagnetic field.

Their compact dimensions make them ideal for mounting in low profile panels. With IP66 protection class, they can work comfortably in harsh environments.

MECHANICAL SPECIFICATIONS

Movement angle	±30° ±1
Operating type	Automatic spring return
Operating force	3N max
Life	2 million cycles
Material	Delrin® POM-C EN 10204
Weight	~40gr

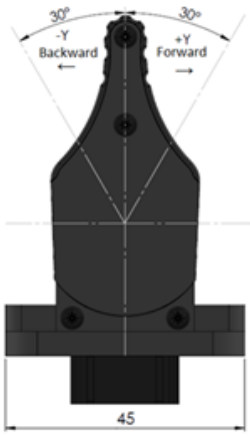
Protection Class	IP66
Operating Temperature	-20°C…+70°C
Storage Temperature	-40°C…+85°C
Relative Humidity	%10…%90 RH

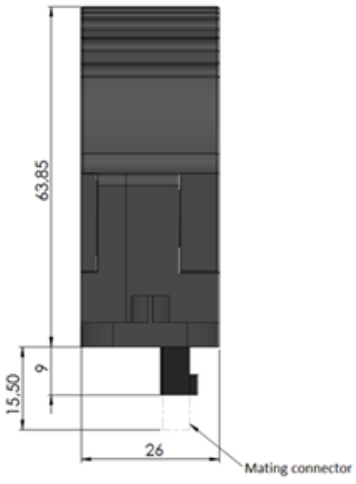
ELECTRICAL SPECIFICATIONS

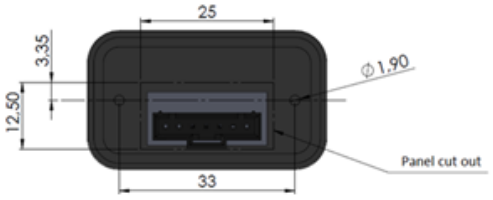
Sensor type	Potentiometer, 1 axis
Electrical angle	±28°
Supply voltage	<36 VDC
Output signal range	0%-100%Vdc output 10%-90%Vdc output 15%-85%Vdc output 25%-75%Vdc output
Resoltion	Infinite
Resistance	5K
Resistance tolerance	<20%
Center tap angle	±2.5°
Center tap output voltage	48%~52%（±2%）

Directional Switch	
Supply voltage	<36 VDC
Maximum current	2mA
Breakout angle	±5°
Contact resistance	<200Ω

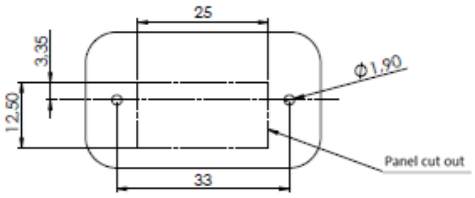
MECHANICAL DIMENSIONS (mm)



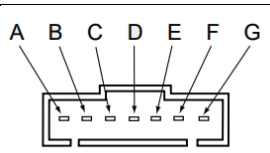




MOUNTING DIMENSIONS (mm)



ELECTRICAL CONNECTIONS

Signal	 **7 pin Molex Series Latching Male Connector (70553-0006) (S150M) PIN NO**	**7 pin Molex series latching female mating connector, with 0.5m cable (S150F) CABLE COLOR**
Center tap	A	Pink
V+ (36 VDC max)	B	Yellow
Output signal	C	Green
V- or GND	D	Blue
N/O directional switch, backward (Y-)	E	Red
N/O directional switch, forward (Y+)	F	White
Directional switch common terminal	G	Black

ORDER CODE

Model	Serie	Resistance	Output signal range	Electrical connection
AJS	**110:** Potentiometric	**5K:** 5K	**1:** 0%-100%Vdc output **2:** 10%-90%Vdc output **3:** 15%-85%Vdc output **4:** 25%-75%Vdc output	**S150M**: 7 pin Molex Series Latching Male Connector (70553-0006)

OPTIONAL PRODUCTS

Product	Code	Description
	S150F	7 pin Molex series latching female mating connector, with 0.5m cable