

### DESCRIPTION

The Jands SAX-P1 is a single axis controller intended for use with the Jands standard drum and pile-wind hoists. The SAX-P1 can also be used with installed Jands equipment such as motorised curtain systems, custom hoists, and other motorised applications such as revolves.

The SAX-P1 incorporates manual position controls plus the ability to store and recall up to 6 (six) preset positions. Each Preset includes a speed parameter so that the axis can be expected to move in a consistent time during playback. All movement controls are dead-man in operation and require the operator to hold down a button for movement to continue. When the button is released, movement halts.

Position and speed LED bar graphs continuously indicate the current parameters of the axis. Additionally the position bargraph can be adjusted so the full height of the bar plus any attached scenery is clearly shown.

An optional wall mount bracket is available to securely mount the SAX-P1 for fixed operation.

### FEATURES

- Manual positioning controls
- Adjustable movement speed
- Recordable preset positions for semi-automated operation
- Automatic acceleration and deceleration
- Accurate positioning
- Preset positions include speed parameter
- Creep mode
- Dead-man operation for movement
- Integrated Emergency Stop
- Onboard status indicators
- Key-switch selected operating modes
- Shrouded buttons reduce the chances of unintentional activation
- Flexible design allows hand held or a multitude of mounting options
- Sturdy extruded chassis
- Backlit front panel
- Complies with AS1418

### SUPPLIED ACCESSORIES

- User Manual
- Cat5 Patch Cable

### OPTIONAL ACCESSORY

- Wall mounting bracket (JND-MP602)

### OVERALL SPECIFICATIONS

Channels	:	1
Supply Voltage	:	24VDC
Maximum ambient operating temp	:	40°C max.
Position Bargraph	:	25 LED
Speed Bargraph	:	25 LED
Input connector	:	2 x RJ45
Indicators	:	Fault Overload EStop Moving
Button controls	:	6 x Preset select 1 x Go 2 x Position Control 1 x Record
Encoder Control	:	1 x 25 PPR detented
Positioning Accuracy	:	Better than +/-5mm
Ingress Protection	:	IP20
Dimensions (mm)	:	101 x 60 x 313 (WxDxL)
Net/shipping weight	:	2/4 kg

### ORDERING INFORMATION

MODEL/PART	PART NUMBER
Single Axis Controller	JND-SAX-P1
Wall Mount Bracket	JND-MP602



## ARCHITECT & ENGINEER'S SPECIFICATION

### Electronics

The axis controller shall include a set of manual controls that enable the connected axis to be positioned at any point within the usable range. The present position and speed shall be indicated on LED bar graphs. The height of the scenery attached to the batten shall be indicated on the position bar-graph.

The combination of position and speed shall be able to be recorded into a set of Presets. These Presets shall allow the axis to be retuned to the same position at a future time semi-automatically with an accuracy of better than +/-5mm. When driven to a preset position the axis shall automatically accelerate to the preset speed, travel toward the position at that speed, then decelerate to a smooth stop as it approaches and reaches the required position.

All movement controls shall be dead-man in operation and require a control to be held down while the axis moves. If the controlling button is released at any time the axis shall rapidly decelerate to a stop. In addition an integrated Emergency Stop button shall when activated cause all axes within the vicinity to rapidly decelerate to a stop.

A record button shall be used to control preset storage and to make other system adjustments. A three-position key-switch shall select the operating mode between Setup, Show, and control disabled mode. The key shall be removable in any position.

The axis controller shall incorporate design techniques and interference suppression to comply with Australian directives on electrical safety and electromagnetic compatibility (EMC).

The internal electronics shall use convection cooling to ensure the electronics stay within their specified parameters provided the ambient temperature does not exceed 40°C.

### Electrical

The axis controller shall operate from 24VDC supplied by the axis control electronics. The main display shall include dimmable LED backlighting to ensure all controls are distinguishable in no or low light conditions.

The connection shall be via an RJ45 Ethernet-style patch cable at either end of the chassis. The RJ-45 shall not be intended to be used for general connect/disconnect purposes.

### Mechanical

The axis controller shall be designed to be hand held. The axis controller shall include provision for a mounting bracket at the rear that simplifies fixed installation. The axis controller shall be 101mm wide x 60mm deep x 313mm long.

The axis controller shall be constructed of extruded aluminium with 5.0mm sheet aluminium end caps and a durable polycarbonate console surface. All metal surfaces shall be properly treated and finished in durable powder coat or anodising. The control surface shall be reverse silk-screen printed from behind. All operator controls and displays shall be provided on the top operating surface of the controller.

The controller shall include ergonomic hand grips to reduce the chance of the controller being dropped. The front panel controls shall be recessed where possible to minimise the likelihood of damage.

The single axis controller shall be the JANDS SAX-P1.

