The JC1200 offers the next generation of paddle joystick from Curtiss-Wright to build on the success of the Penny & Giles potentiometric JC120. This new joystick utilizes non-contacting, Hall-effect sensing technology for long-life integrity of the output signal. Operating feel has been an important part of this new development to make this unit as smooth and easy to operate as possible throughout an industry-leading 40 million cycle life.

Hall-effect sensing eliminates contact wear and provides safety functionality via dual outputs, which can be set to positive or negative ramps, or a combination of both. Electronic robustness is assured with sealing of the internal PCB to a rating of IP65, while a joystick to panel rating of IP67 can be achieved.

A choice of paddle ‘Tabs’ is available in nine different colors. These can be fitted at the factory or supplied as loose parts to be selected as part of the final installation process.
### SPECIFICATIONS

#### ELECTRICAL
- **Supply Voltage**: 5Vdc ± 0.5Vdc
- **Output Voltage (Factory Set)**: 10% to 90% or 20% to 80% of the Supply Voltage
- **Center Reference**: 48.0% to 52.0% of supply voltage
- **Output Sense**: The dual outputs can be configured to have positive ramps, negative ramps or a combination of both.
- **Current Consumption**: < 25mA

#### MECHANICAL
- **Breakout Force at Handle Tip**: 1.0N
- **Operating Force at Handle Tip**: 3.5N
- **Maximum Lever Load on Handle Tip**: 50N transverse or in-line with operation
- **Mechanical Angle**: ±30° return-to-center; 60° return-to-end
- **Gate**: Single axis
- **Mechanical Life**: 40 million cycles
- **MTTFd**: > 100 years
- **Weight**: Less than 40g

#### ENVIRONMENTAL
- **Operating Temperature**: -40°C to 85°C
- **Storage Temperature**: -40°C to 85°C
- **Environmental Protection**: IP67 above panel, IP55 electronics and connector
- **EMC Immunity Level**: EN 61000-4-3: 2002, 100V/m, 80MHz-1GHz and 1.4GHz-2.7GHz
- **EMC Emissions Level**: EN 61000-6-4: 2011, 30MHz to 1GHz
- **ESD Immunity Level**: EN 61000-4-2, Level 2: 1995, 4KV contact (including connector pins); 4kV air discharge
- **Vibration**: EN 60068-2-64: 2008, random, 3.6gn, 10-200Hz, 2h per axis
- **Bump**: EN 60068-2-29: 2008, 25gn, 10ms, 500 bumps in each of 6 directions
- **Free Fall Drop**: EN 60068-2-31: 1993, 1.0m at level C, 1.2m at level E
- **Shock**: EN 60068-2-27: 2008, 50g, 6ms, Half Sine, 3 shocks in each of 6 directions

#### COLOR TAB OPTIONS
- **None**: Tab not fitted when joystick supplied
- **Black**: RAL9005
- **Gray**: RAL7042
- **White**: RAL9003
- **Yellow**: RAL1023
- **Orange**: RAL2007
- **Red**: RAL3028
- **Purple**: RAL4006
- **Blue**: RAL5017
- **Green**: RAL6038