

Penny & Giles Hall-Effect Paddle Joystick JC1200

- Robust design for arduous applications
- Return-to-center or return-to-end options
- Under-panel depth minimized to 9mm
- Rated for 40 million cycles
- Hall-effect sensor technology
- Dual outputs with sense and voltage span options
- IP67 sealing above panel
- Color-coded 'Tab' options
- Can be supplied as 'base-only' so the colored tabs can be fitted at final installation



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 noncontacting, 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.



Return-to-Center

Return-to-End

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	
CONNECTION	7-way Molex	
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	

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