

Penny & Giles **Heavy Duty Multi-Axis Joystick**JC8000

- Extremely robust design for arduous applications
- Centre detent for enhanced return-to-center performance
- Under panel depth has been minimized to 78mm
- Pivot-point position minimizes handle cable flex
- · Rated for 5 million cycles
- Hall-effect sensor technology
- Dual outputs with sense options
- Electronics sealed to IP69K
- Can be supplied as 'base-only'
- . More functions, e.g. CAN interface, to follow
- Multiple handle options ...





The JC8000 offers high mechanical strength for very heavy-duty applications and features a centre detent that provides guaranteed return-to-centre, as well as a positive feel to the operator, throughout 5 million cycles. While maintaining an overall minimum under-panel depth of the joystick body, the shaft pivot-point position has been designed to be as low as possible so as to ensure a high strength capability in the small body space envelope. This reduction in angular deflection reduces wear on base-to-handle wiring, so enhancing overall reliability.

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 IP69K.

A choice of multi-function handles are available, plus the option of 'base-only' enabling custom handles to be fitted. Beyond this initial release, further models will be introduced to provide increased handle functionality, CAN bus interfaces and mechanical variation.

SPECIFICATIONS

SUPPLY

SUPPLY VOLTAGE 5Vdc ± 0.5Vdc **OUTPUT VOLTAGE** 0.5-4.5V 1.0-4.0V (FACTORY SET)

1.25-3.75V

CENTRE REFERENCE 44.5-55.5% of supply voltage

OUTPUT SENSE The dual outputs can be configured to have positive ramps,

negative ramps or a combination of both.

CURRENT CONSUMPTION 64mA CONNECTION Flying lead

MECHANICAL

BREAKOUT TORQUE 1.2Nm **OPERATING TORQUE** 1.2Nm MAXIMUM LEVER LOAD 240Nm

MECHANICAL ANGLE ±16° on X- and Y-axes

GATE Square

EXPECTED LIFE 5 million cycles WEIGHT 1.1kg without handle

ENVIRONMENTAL

OPERATING TEMPERATURE -40°C to 80°C STORAGE TEMPERATURE -50°C to 85°C **ENVIRONMENTAL PROTECTION** IP66 above panel IP69K electronics

EMC IMMUNITY LEVEL 100V/m

EMC EMISSIONS LEVEL Complies with EN 55011

ESD IMMUNITY LEVEL EN 61000-4-2 ±15kV air discharge

VIBRATION EN 60068-2-64 random, 3.6gn, 10-200Hz, 2h per axis **SHOCK** EN 60068-2-27 25gn, 10ms, 500 in 6 directions





cwig.us@curtisswright.com www.cw-industrialgroup.com