

6060-856

NEW

JC200

INDUCTIVE JOYSTICK WITH NON-CONTACTING SENSOR SYSTEM

Non contacting

EMC protected

Sealed to IP65

Fail safe circuit

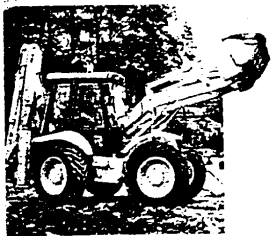
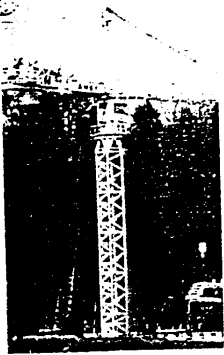
No flexing wires

Compact unit

Rugged design

Dual axis

Excellent proportional control



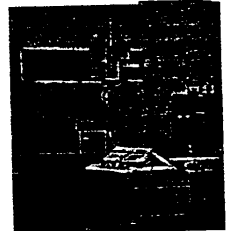
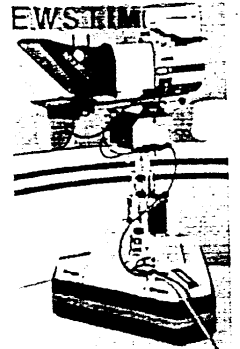
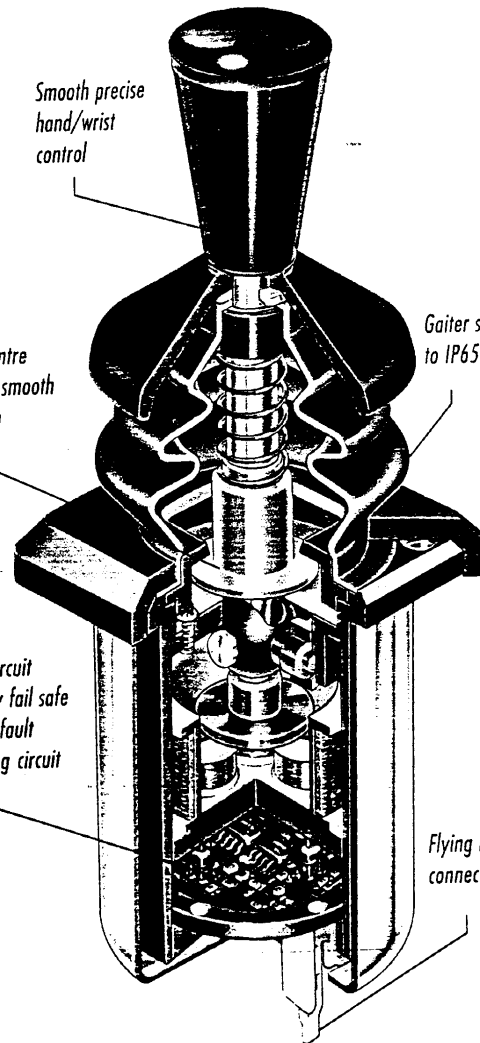
*Smooth precise
hand/wrist
control*

*Cone return to centre
mechanism gives smooth
reliable operation*

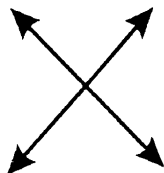
*Decode circuit
inherently fail safe
-optional fault
monitoring circuit*

*Gaiter seals
to IP65*

*Flying lead or
connector*

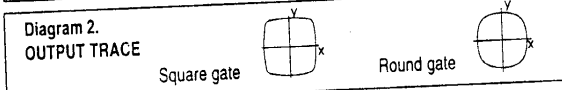
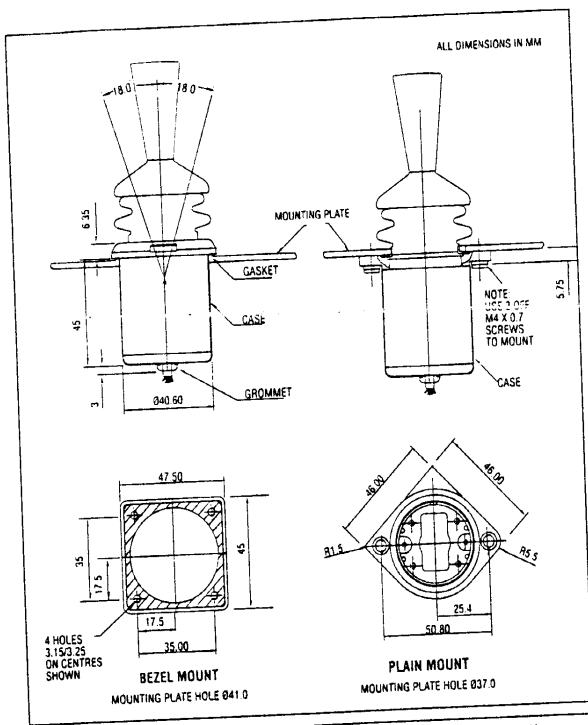


Penny + Giles joystick controllers find applications wherever there is a man-machine interface. Applications include off highway vehicles, crane control, medical, robotic, marine, camera and many others



Penny + Giles

JC200 TECHNICAL DETAILS FOR SPECIFIERS AND DESIGNERS



Performance details	
INPUT VOLTAGE	5 to 14 volts dc
OUTPUT IMPEDANCES	
SIGNAL	1.8K ohms
CENTRE TAP	0.34K ohms
RESOLUTION	Infinite
LIFE IN NORMAL USE	15 million cycles
Characteristics with 10V dc supply	
CURRENT DRAIN	15 mA max
RIPPLE	10mV max
CENTRE TAP VOLTAGE (V CENTRE)	5V ±30mV
SELF CENTRE WITHIN	V centre ±10mV
VOLTAGE SWING	±(1V ±10%)
OUTPUT VOLTAGE	
NORMAL RANGE	4 to 6 volts ±0.1V
ON DETECTED FAILURE	<3.5V, >6.5V

Output Trace
GATE TYPE see diagram 2

Displacement details	
MECHANICAL ANGLES "X" & "Y"	±18° nominal

Mechanical loads (measured from 50mm above the mounting face)	
BREAKOUT FORCE "XY" AXES	1N nominal
OPERATING FORCE "XY" AXES	2N nominal
MAXIMUM APPLICABLE FORCE	50N nominal
WEIGHT	1.2N max.

Environmental	
SEALED TO IP65 ABOVE THE MOUNTING PANEL	
OPERATIONAL TEMPERATURE RANGE	-25°C TO +65°C
STORAGE TEMPERATURE RANGE	-40°C TO +70°C

Patents applied for.
Penny and Giles policy is one of continuous product improvement, we reserve the right to change specifications without notice.

General

The JC200 is a dc voltage input, variable dc voltage output device. The unit is designed for maximum reliability and security in use, its unique design eliminates all moving wires. **Fault Monitor Option:** The on-board fault monitor electronics guard against undetected faulty outputs possibly caused by the failure of internal connections or components. In the event of such a failure the electronics generate an output voltage beyond the normal limits.

Penny and Giles Joystick Controller Range

The JC200 inductive joystick compliments the range of potentiometric and switched joystick controllers designed and built by Penny and Giles to meet the exacting requirements of industrial users throughout the world. For more details of the range please contact us or your local distributor.

Custom Design Facility

Penny and Giles experience of design and manufacture backed by BS EN ISO9001:1994 systems has solved many original equipment manufacturers' control problems. Where the potential volume warrants this approach we can design to your requirements.

Order references

JC200XY	* * * dual axes
Mounting type	
Electronics	
Connection type	
Mounting type	P = Plain mount, B = Bezel mount
Electronics	S = Standard, M = Fault Monitoring
Connectors	F = Flying lead, C = Connector (only available on Fault Monitor Units)

Installation Recommendations

The output signal voltage should be referenced to the centre tap voltage. The JC200 range of joystick controllers provide out of range voltage signals in the event of detected failures. The safety of the overall control system depends upon the correct utilisation of the voltage signals by the system designer.

The Penny & Giles group of companies design and manufacture a range of quality measurement, control and display instrumentation, control systems and data recording equipment for today's technology in the world's avionics, computer, marine, process control and monitoring industries. Penny & Giles hold several quality approvals including BS EN ISO9001:1994.

Distributed by:



Penny & Giles are continually improving their products and reserve the right to change specification without prior notice.

A member of the Bowthorpe Group of Companies

Certificate No. FM13916

Penny and Giles Electronic Components Ltd,
36 Nine Mile Point, Cwmfelinfach, Gwent,
United Kingdom, NP1 7HZ.
Tel: (01495) 200860 Fax: (01495) 200805

Penny + Giles