# JC100 SINGLE AXIS JOYSTICK

Developed for applications where ergonomics and system integrity are paramount, the JC100 is a compact, low profile joystick that provides smooth, precise fingertip control in one axis. The JC100 is sealed to IP66 to enable it to operate in extreme environments. With all the components contained within the handle, and standing only 70mm high, it is ideal for mounting in low profile panels and arm rests. Installation time has been reduced through the use of a standard electronic connector, and the joystick has been designed for maintenance-free operation throughout its operating life of greater than five million operations.

Typical applications include remote control chest packs and the control of construction, agricultural or material handling equipment.

## PERFORMANCE MECHANICAL

Expected life (operations) >5 million

Weight g 45

\*At top of handle

#### **ENVIRONMENTAL**

Operating temperature

°C -25 to +70

Storage temperature

°C -40 to +85

Environmental protection

IP66 IEC 60529

**above flange**Unit supplied with foam gasket seal

### ELECTRICAL

### Analogue Track

**Resolution** Virtually infinite **Track resistance (\pm 20\%)** k $\Omega$  4 or 5

Track electrical angle ° ±28

**Output voltage range** % 0-100, 10-90 or 25-75 of input  $(\pm 2\%)$ 

Center tap voltage (no load) % 48 - 52 of applied voltage
Center tap angle ° 2.5 either side of center

Supply voltage - maximum Vdc 32

Wiper circuit impedance  $M\Omega$  Greater than 0.1\*\*

Power dissipation @ 25°C W 0.25 (no load)

\*\* The long life resistive elements require a high impedance load in the wiper circuit to minimise the current flowing through the wiper for optimum conditions

#### Switch -

# Directional or Center Off

Switch operating angle ° 5 either side of center

Supply voltage - maximum Vdc 35 Load resistance - minimum  $\mathbf{k}\Omega$  10

#### **ORDERING CODES**

0-100% output voltage range, 4k
10-90% output voltage range, 5k
25-75% output voltage range, 5k

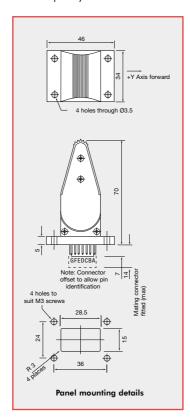
JC100-002
JC100-007

Mating connector kit SA47269

# DIMENSIONS AND MOUNTING OPTIONS

#### JC100

It is recommended that the JC100 joystick is fitted from the top of the mounting panel using four M3 screws (not supplied). The panel cut-out and centers for the screw positions are as shown in the panel mounting detail below. Seal integrity can only be achieved when using the sealing gasket supplied and screws are tightened to 0.7Nm. The installer should also ensure the mounting screws are adequately sealed.



# ELECTRICAL CONNECTIONS

Connection

Mating connector kit (order separately)

FCI DUBOX $^{TM}$  7 way male connector (76382-307) SA47269 (contains DUBOX $^{TM}$  65240-007 female connector and 7 pins 76357-301

suitable for AWG 22-30 wire size)

