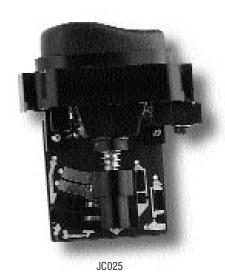
JC 025/030

SINGLE-AXIS FINGERTIP ROCKER



Developed for applications where compact size and minimal above panel height is paramount, the JC025/030 rockers are very low profile whilst still providing precise fingertip control in one axis.

Designed for use with an electronic controller, the conductive plastic elements in the JC025/030 generate analogue and switched reference signals proportional to the distance and direction over which the rocker is moved. The analogue output can be configured to provide signals for fault detection circuits within the controller. A center tap on the analogue track provides an accurate voltage reference for the center

position or a zero point for a bipolar supply voltage.

The use of these rockers in a control panel allows designers to develop very low profile assemblies whilst still maintaining the functionality of a much larger single axis joystick. With the absence of microswitches and camshafts there is no need to maintain the rockers throughout their operating life in excess of 5 million cycles.

Typical applications include remote control chest packs and low profile panel assemblies.



ORDER CODE						
JC025/030 -	R - STD - BLK	R - STD - BLK				

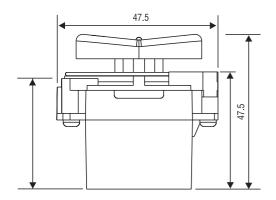
Tracks	N	R	Q	*
Track Resistance	1k6Ω	2kΩ	3k2Ω	
Output Voltage Range	0% to 100% Vs	10% to 90% Vs	25% to 75% Vs	
Directional Switch Gap	± 2.5°	± 2.5°	± 2.5°	
Center Return Spring	STD			
Breakout Force	5N			
Operating Force	15N			

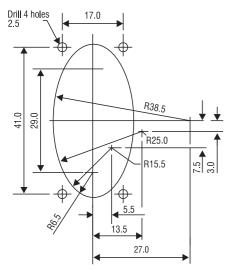
^{*} Other track resistances - check for availability

41.0

Standoff position 13.0 R85 POSN'S R36.0 TYP 2 POSN'S Standoff position

Panel mounting details JC025





All dimensions in mm

Panel mounting details

JC030

Specifications

Mechanical		
Breakout Force	5N	14mm radius from center
Operating Force	15N	Full deflection, 14mm radius from center
Maximum Applied Force	50N	Full deflection, 14mm radius from center
Mechanical Angle of Movement	±12°	
Electrical Angle of Movement	±10°	
Expected Life (Operations)	>5 million	
Mass	30g	
Environmental		
On susting Taxas sustant Days	0500 + 7000	

Operating Temperature Range -25°C to +70°C
Storage Temperature Range -40°C to +80°C

Environmental Sealing Above the Flange IP65 (when correctly panel sealed) BSEN60529

Unit supplied with "O" ring

Electrical General

Maximum Load Current Potentiometer wiper - See Design Note in rear of Data Sheet

Directional switches - 200mA Resistive

Maximum Power dissipation 0.25W at 25°C

Analogue Track

Total track Resistance $1 k6\Omega$, $2 k\Omega$ or $3 k2\Omega$ Tolerance $\pm 20\%$

Output Voltage Range 0% to 100%Vs or 10% to 90%Vs

or 25% to 75%Vs Tolerance $\pm 2\%$ Center Tap Voltage (1M Ω Load) 50%Vs Tolerance $\pm 2\%$

Center Tap Angle 1.5° either side of center Tolerance $\pm 1\%$

Directional Switch

Directional or Center Off Switch Standard

Switch Operating Angle 2.5° either side of center Tolerance $\pm 1^{\circ}$

Black

Maximum Supply Voltage (Vs) 35Vdc (Switch only)

Termination Details

DescriptionWire ColorPositive supply voltagePink/GrayCenter tapYellow/RedNegative or zero supply voltageWhite/RedOutput voltage signalPinkN/O signal handle forwardGreenN/O signal handle backBlue/Orange

Common terminal for directional switches