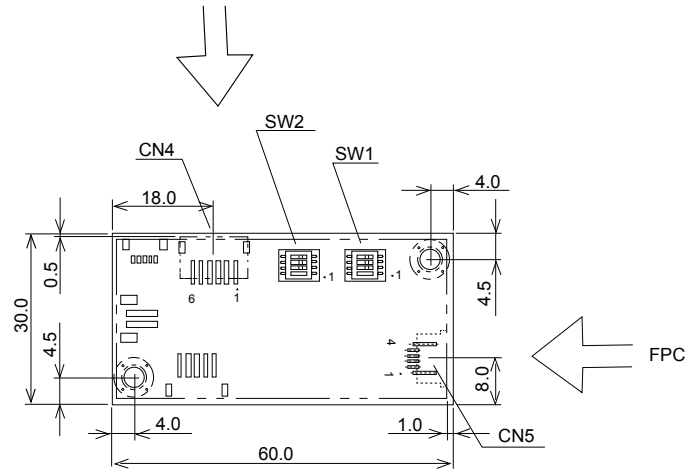# DUAL-TOUCH CONTROL BOARD: 4-WIRE USB
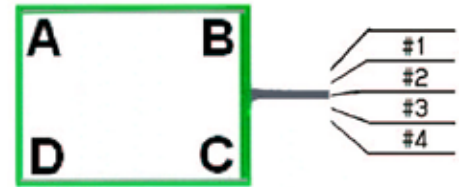
NC01850-B045RS Dual-Touch (2-finger) Control Board Quick Reference

4-Wire Resistive Touch Panels

■ FEATURES
- Multi-touch functionality with 2 fingers: pinch, expand, rotate, flick
- Use with Fujitsu Feather Touch 4-wire resistive touch panel
- High quality and reliability
- USB 2.0 bus powered interface for direct connection
- Switch selectable origin point
- RoHS compliant

Origin (0,0) Point

■ SWITCH SETTINGS

SWITCH 1

SW1-1	Orientation mode selection switches	OFF		ON		OFF		ON		Connector Pin Assignment		
SW1-2		ON		OFF		OFF		ON		#1	Top	Type A
SW1-3		OFF		OFF		ON		ON		#2	Right	
SW1-4	Reserved	OFF		OFF		OFF		OFF		#3	Bottom	
										#4	Left	

SW1-1	Orientation mode selection switches	ON		OFF		ON		OFF		Connector Pin Assignment		
SW1-2		OFF		OFF		ON		ON		#1	Left	Type B
SW1-3		OFF		ON		ON		OFF		#2	Top	
SW1-4	Reserved	OFF		OFF		OFF		OFF		#3	Right	
										#4	Bottom	

Notes:
Connector Pin Assignment listed on individual touch panel drawings.

SWITCH 2

SW2-1	Reserved	ON		ON	ON		ON		Connector Pin Assignment			
SW2-2	Dual/single touch mode select	ON	A	ON	ON	C	ON	D	#1	Top		Type A
SW2-3	Digitizer/mouse mode select	ON		ON	ON		ON		#2	Right		
SW2-4	Reserved	ON		ON	ON		ON		#3	Bottom		
									#4	Left		

SW2-1	Reserved	ON		ON	ON		ON		Connector Pin Assignment			
SW2-2	Dual/single touch mode select	ON	A	ON	ON	C	ON	D	#1	Top		Type B
SW2-3	Digitizer/mouse mode select	ON		ON	ON		ON		#2	Right		
SW2-4	Reserved	ON		ON	ON		ON		#3	Bottom		
									#4	Left		

■ **CONSTRUCTION**

Specification Item		NC01850-B045RS 4-Wire Dual-Touch Control Board
Mechanical	Size / Weight	60mm x 30mm / 25 grams
Electrical	Supply Voltage (min./max.)	Vcc 4.5 / 5.5 V USB bus powered
	Operating Current (detect)	20mA @ Vcc 5.0V and 25℃
	Sleep Mode Current	24 microAmps @ Vcc. 5.0V and 25℃
Environment	Operating Temperature	-5℃ to +60℃
	Storage Temperature	-30℃ to +70℃
	Humidity	20% RH to 85% RH at 38℃ maximum wet bulb temperature

■ **TOUCH PANEL CONNECTION CN5 (FCI: SFW4R-1STAE1-LF)**

■ **INTERFACE CONNECTION CN4 (JST S6B-ZR-SM4 (LF) (SN))**

1.	+5V (Vcc)	3.	D+ (Signal)	5.	Frame ground
2.	D- (Signal)	4.	Ground (Vss)	6.	N.C.

Complete specification document is available on request for customers with whom we have an approved NDA in place.

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