

FCL Components Touch Panels

Standard 7-Wire series

FCL Components Resistive Touch Panel Specification

Features

- Superior long life, using a unique construction method offering improved life over typical technologies; the film layer only serves to sense touch data, typically a 10x improvement in product life is achieved.
- Excellent specification and high quality
 - Anti Newton ring technology
 - High reliability materials
- Pen/finger, pen only, finger only, light touch types available
- Transparency - 80% typical
- Anti-glare finish (haze 5%)
- RoHS compliant



■ Part Numbers

Part Number	Size	Type
N010-0510-T303	17.0"	Pen/Finger
N010-0510-T222	15.0"	Pen/Finger
N010-0550-T717	12.1"	Pen/Finger
N010-0551-T255	12.1"	Pen/Finger (light touch type)
N010-0550-T613	10.4"	Pen/Finger
N010-0550-T625	10.4"	Pen/Finger (light touch type)

■ Controller Boards

Part Number	Type	Support Interface	Dimensions (mm)
FID-1850-175	7-wire	RS232C compatible	75.0 x 30.0 x 5.9
FID-1850-155	7-wire	USB	75.0 x 30.0 x 8.5

■ Interface Controller Chips

Part Number	Type	Support Interface	Dimensions (mm)
FID-1860-013	4/5/7-wire	Serial / I2C	7.0 x 7.0 x 1.7 (body) 48 pin LQFP
FID-1860-014	4/5/7-wire	USB	7.0 x 7.0 x 1.7 (body) 48 pin LQFP

■ Specifications

Item	Specifications	Notes	
Mechanical	Structure	Film-glass	
	Hardness	Pencil hardness 3H minimum	
	Input load	Min.	0.5N (standard type), 0.02N (light input load type)
		Max.	0.5N
	Glass thickness	1.8mm (17"), 1.1mm (others)	R0.8 polyacetal resin pen / R8 silicon rubber (hardness 60 degree)
	Panel thickness	1.2mm (17"), 1.4mm (others)	
	Writing life	1 million letters	R0.8 polyacetal resin pen, writing load 3.43N
	Dot life	10 millions dots	R8 silicon rubber (hardness 60degree), point load 1.96N, frequency 5Hz
Origin of coordinate	Please see control board specifications		
Optical	Transparency	80% (typical)	JIS K7105
	Haze	5 % (typical) no glare	JIS K7105
Electrical	Rated voltage	5VDC ±10%	with control board FID-1850-155
	Current consumption	14mA typ (operating), 13mA typ (suspend)	
	Insuration resistance	10M ohm at 24VDC	
Environmental	Operating temperature	-5°C to 60°C	
	Storage temperature	-30°C to 70°C	
	Operating humidity	20% to 90% RH with a maximum wet bulb temperature of 38°C	
	Storage humidity	10% to 90% RH with a maximum web bulb temperature of 36°C	

■ Detailed specifications

1. This specification applies to the standard series Resistive Touch Panel (Pen/Finger type)
2. Complete specification document is available upon request.

■ General notes

Touch panels are made of glass and need to be handle with care. Do not stress, pile, bend, lift by the cable or put any stress on the film, for example moving by film face vacuum. In order to clean wring dry a cloth which has been emersed in a natural detergent.
DO NOT use any organic solvent, acid or alkali solution. Watch the edge of the panel when cleaning, again for safety reasons.

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