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NOT FOR NEW DESIGN

FCL Components Touch Panels

Standard and Light Touch 4-Wire series

FCL Components Resistive Touch Panel Specification

Features

- Superior quality 4-wire resistive touch panel
- Available in standard or light input force types (min. 0.02N)
- Light input type panels with dual input gesture support are comparable to PCAP panels
  - Pinch, Zoom, Rotate, Swipe or Flick action detection by the controller
- Excellent specification and high quality
  - Anti Newton ring technology
  - High reliability materials
- Pen/finger input type
- Transparency 80~90%
- Flush surface, logo and custom colored rim area
- Optional AS, AG coating, antibacterial finish, enhanced writing friction finish available
- RoHS compliant



■ Standard 4-Wire Resistive Touch Panel Part Numbers

Size	Aspect Ratio	Part number	Transparent area (mm)	Glass thickness (mm)	Tail (Flex) length mm	Transparency %
15.0	4x3	N010-0554-T902A	309.2 x 234.23	1.1	61	80
12.1	4x3	N010-0554-T805A	250.9 x 190.8	1.1	75	82
12.1	4x3	N010-0554-T814A	250.9 x 190.8	1.1	120	82
10.4	4x3	N010-0554-T303A	216.2 x 164.6	1.1	75	80
10.4	4x3	N010-0554-T347A	216.2 x 164.6	1.1	75	82.5
10.4	4x3	N010-0554-T352A	216.2 x 164.6	1.1	120	82.5
8.4	4x3	N010-0554-T504A	173.8 x 131.8	0.7	75	80
6.5	4x3	N010-0554-T043A (AG)	133.6 x 102.7	1.1	61	82
6.5	4x3	N010-0554-T048A	133.6 x 102.7	1.1	120	86
5.7	4x3	N010-0554-T009A	122.0 x 93.9	1.1	46.2	80
3.8	4x3	N010-0554-T703A (AG)	61.6 x 82.5	0.7	21	80

Light Touch 4-Wire Resistive Touch Panel Part Numbers

Size	As-pect Ratio	Part number	Transparent area (mm)	Glass thick-ness (mm)	Tail (Flex) length mm	Transparency %
22	wide	FID-1111-501-A22	479.76 x 303.1	1.8	120	80
19	4x3	FID-1111-381-A19	382.9 x 307.7	1.8	120	80
17.1	4x3	NC01111-T281	342.3 x 274.1	1.8	61	80
15.3	wide	NC01152-T021	338.08 x 204.44	1.1	61	80
15	4x3	NC01111-T261	309.2 x 234.23	1.1	61	80
12.1	wide	NC01111-T081	264.12 x 167.2	1.1	120	80
12.1	4x3	NC01111-T241 (AS)	250.9 x 190.8	1.1	61	80
12.1	4x3	NC01111-T242	250.9 x 190.8	1.1	75	80
10.4	4x3	NC01111-T221	216.2 x 164.6	1.1	61	80
10.4	4x3	NC01111-T222	216.2 x 164.6	1.1	75	80
10.1	wide	FID-1154-401-A10	223.4 x 141.5	1.1	50	80
8.4	4x3	NC01111-T202	173.8 x 131.8	1.1	75	80
8	wide	NC01101-T081	180.8 x 103.8	1.1	50	82
7	wide	NC01152-T101	157.4 x 95.0	1.1	50	82
4.3	4x3	NC01111-T181	99.1 x 57.5	1.1	50	80
3.8	4x3	NC01111-T161	61.6 x 82.5	0.7	21	80

Notes

- AS = Anti-Smudge
- Full specifications are available - please contact your local Sales Representative or use the Contact Form to request

Controller Boards

Part Number	Type
NC01850-B070RS	4-wire, RS232
NC01850-B010RS	4-wire, USB
FID-1850-120	4-wire, USB, dual touch*

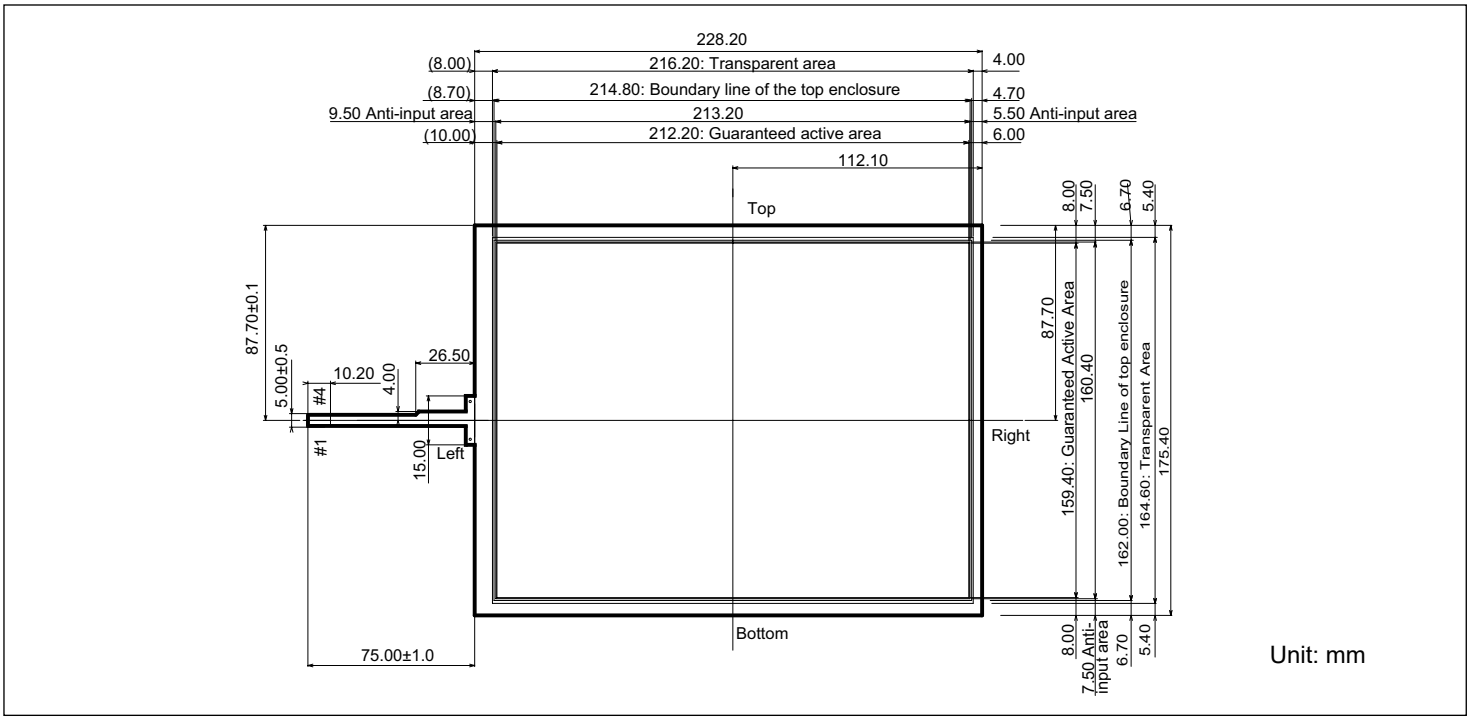
*: Dual touch does not work with Windows¬ 10 version 1809 or later.

Interface Controller Chips

Part Number	Type
NC41120-0036	4-wire, RS232
NC41120-0051	4-wire, USB
FID-1860-002	4-wire, RS232, dual touch
FID-1860-005	4-wire, USB, dual touch*

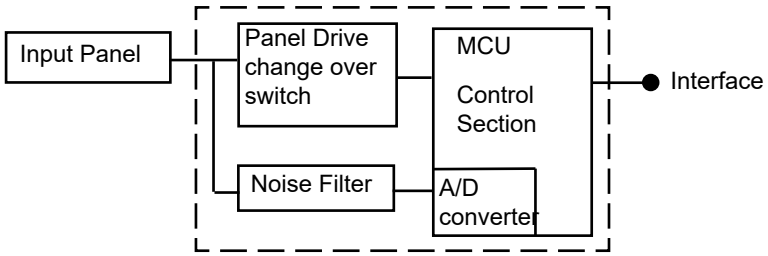
*: Dual touch does not work with Windows¬ 10 version 1809 or later.

■ Dimension example (10.4” shown)



■ System description and block diagram

This panel in combination with a control IC chip or control board is used to transfer the co-ordinate data to the host system. Please see block diagram.



■ General notes

Touch panels are made of glass, so care must be taken in handling them. 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.

■ Detailed specifications

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

■ Electrical

	Standard 4-wire	Light Touch 4-wire
Rated voltage	DC 5V (DC 7V maximum)	DC 5V (DC 7V maximum)
Switch bounce (chattering)	20ms maximum	20ms maximum
Insulation resistance	10MΩ minimum	10MΩ minimum

■ Environmental

	Standard 4-wire	Light Touch 4-wire
Operating temperature	-5°C to 60°C	-5°C to 60°C
Storage temperature	-30°C to 70°C	-30°C to 70°C
Operating humidity *1	20% to 85%	20% to 90%
Storage humidity *1	10% to 90% RH	10% to 90% RH

*1: Maximum wet bulb temperature of 38°C

Contact

Japan
FCL COMPONENTS LIMITED
Shinagawa Seaside Park Tower
12-4, Higashi-shinagawa 4-chome,
Tokyo 140 0002, Japan
Tel: +81 3 3450 1682
Email: fcl-contact@cs.fcl-components.com

Europe
FCL COMPONENTS EUROPE B.V.
Diamantlaan 25
2132 WV Hoofddorp
Netherlands
Tel: +31 23 5560910
Email: info@fcl-components.eu

China
FCL COMPONENTS (SHANGHAI) CO., LTD. Unit 1105, Central Park –Jing An, No.329 Heng Feng Road, Shanghai 200070, China
Tel: +86 021 3253 0998
Email: fcsh@fcl-components.com

North and South America
FCL COMPONENTS AMERICA, INC.
2055 Gateway Place, Suite 480
San Jose, CA 95110 U.S.A.
Tel: +1 408 745 4900
Email: fcai.components@fcl-components.com

Asia Pacific
FCL COMPONENTS ASIA, LTD.
No. 20 Harbour Drive, #07-01B
Singapore 117612
Tel: +65 6375 8560
Email: fcal@fcl-components.com

Web: www.fcl-components.com/en/

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