

杭州凡诺电子有限公司 FANNAL ELECTRONICS CO., LTD

Specifications for Touch Panel

Model NO: FN101A08-V2.1

Revision: V2.1

☐ Approved For Specifications Only

■ Approved For Specifications And Sample

FANNAL		CUSTOMER	
PREPARED	CHECKED	APPROVED	APPROVED

Address: 6th Floor No.77 Xingwang West Road, Hangzhou, Zhejiang, China

Phone: +86 (0)571 85161516

http://www.fannal.cn

http://www.fannal.com



1. Record of Revision

NO.	Content	Page	Date
1	Preliminary Specification was first issued	2	2017/06/26



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3. Module Numbering System <u>FN</u> <u>101</u> <u>A</u> <u>08</u> - <u>V2.1</u> Version Number V1.0-9.9 STD Product Serial No:000-999 Product Structure Type: AM:TP+TFT; A/AH: TP Touch Panel Size: 7 Inch:070;4.3Inch:043 Company Name: FANNAL



4. Application

This improved projected capacitive touch panel module is applied to industrial applications which required touch input.

Industrial control, medical devices and automation industries (transportation, military, smart home, and others)

5. Feature

NO.	Item	Specifications
1	Туре	Projected Capacitive
2	Input Mode	Finger
3	Connector	COF-FPC

6. General Specification

NO.	Item	Specifications	Unit
1	Touch Panel Size	10.1(Diagonal)	inch
2	Structure	G+G	
3	View Area	217.96(H)x136.60(V)	mm
4	Outline Dimension	257.96(H)x168.60(V)x1.60(D)	mm

7. Environmental Characteristic

NO	•	Specifications		
NO.	NO. Item Tempera		Humidity (Non-Condensing)	
1	Operation	-20~70℃	45%-90%RH	
2	Storage	-30~80°C	5%-95%RH	

Note: Testing environment is under normal atmospheric pressure. When the ambient temperature is above 65°C, the humidity is allowed to be below 50%RH



8. Optical Characteristic

NO.	Item	Specifications
1	Transparency	87%±5%
2	Haze	>3%

9. IC Specification

NO.	Item	Specifications
1	Driver IC	CYTMA568-70BUI-58BB
2	Detect Points	5
3	Interface	I ² C
4	Power Supply	2.8-3.3V



10. Pin Assignment

Pin No.	Symbol	I/O	Description
1	GND		System ground
2	NC		NO Connection
3	NC		NO Connection
4	NC		NO Connection
5	NC		NO Connection
6	GND		System ground
7	SDA	I/O	I ² C data signal
8	SCL	I/O	I ² C clock signal
9	RST	I	External reset signal, active low
10	INT	0	Interrupt signal, active low, asserted to request Host start a new transcation
11	VDD		Power supply
12	VDD		Power supply

11. Mechanical Characteristic

NO.	Item	Condition	Specifications
1	Operating Force	Finger ≤ 10g	
2	Impact	30.0ΦDIA.Steel Ball/132g/Height=35cm/1 time, Impact at center area	Satisfy- 1.Optical Characteristics 2.Electrical Characteristics Appearance- 1.Ignore test area 2.No mechanical damage



NO.	Item	Condition	Specifications
		5000g within 10cmΦ area for 30sec	
3	Static Load	5 kg	
		6H pencil,pressure 500g/45°	
4	Hardness	Direction → ↓ W	Satisfy- 1. Optical Characteristics
		500g/cm by vertical 90° for 30sec	2. Electrical Characteristics
5	Tail Peeling	Touch Penal W	Appearance- 1. Ignore test area 2. No mechanical damage
		90° 10times left & right	
6	Tail Bending	Touch Penal	



12. Reliability Test

NO.	Item	Condition	Specifications
		60°C X 90%RH,120hrs and normalized for 24hrs	
1	Constant Temperature/Humidity	60°Cx90%RH	
2	Heat Cycle	80°C/120hrs and normalized for 24hrs	Satisfy-
3	Cold Cycle	-30°C/120hrs and normalized for 24hrs	1 Electrical Characteristics
4	Thermal Cycle	-20°C~70°C [30min/cycle]*10cycles and normalized for 24hrs	



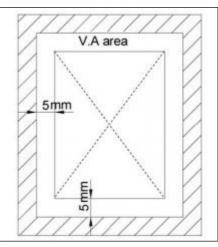
13. Function test

 $\begin{array}{c} \text{Test Method:} \\ \text{Use } \Phi 8 \text{ copper stick to draw the square} \\ \text{diagonal line.} \end{array}$

Function Test

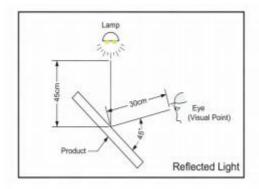
Test Area: 5mm inward view area.

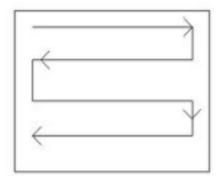
Disapproval Criteria: It is NG when we see the off-liner or jumping out spec shift.



14. Appearance Inspection

The inspection is to be performed with 20W(1200±500 LUX)fluorescent lamp lighting from the back or side. The panel is to be placed 30cm away from eyes. (Figure 13-1)







15. Appearance Specification

NO.	Item	Specifications	Judgment
1	Dot Contamination	1)D ≤0.3mm, DS≥10mm, 2)0.30mm <d≤0.50mm, ds="">10mm 3)D>0.50mm</d≤0.50mm,>	1)Ignore 2)OK with 5 3)NG
2		1)W < 0.05mm 2)0.05mm≤W≤0.20mm L≤5mm 3)W≥0.20mm or L≥5mm	1)Ignore 2)OK with 5 3)NG
3	Cracks and Chips(Surface)	X<0.3mm, Y<0.3mm, Z<\frac{1}{2}T	Ignore

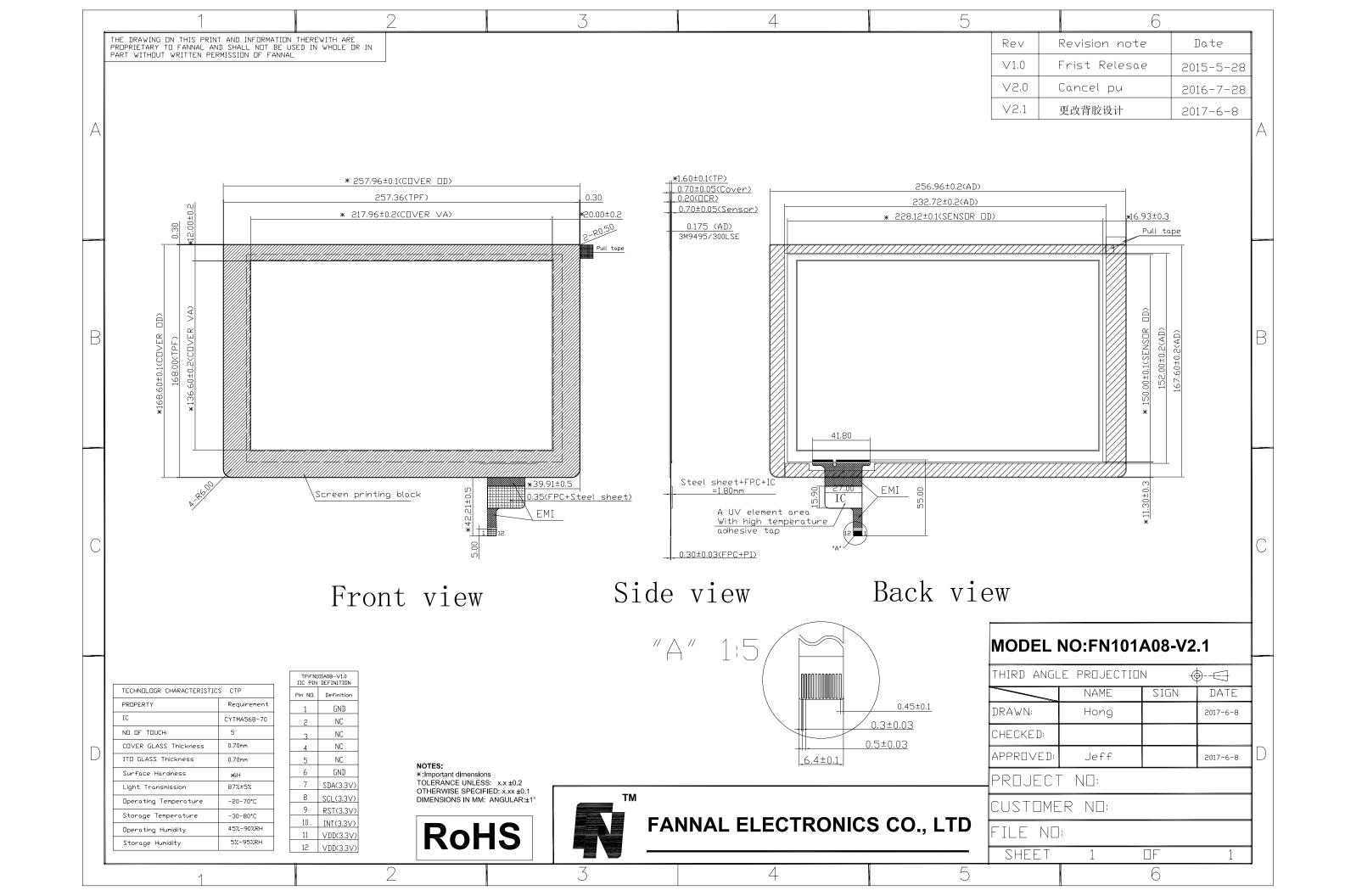
<Endorse>

1. All cosmetic defects are not accounted if found outside Active Area.

(except for glass breakage, corner flaw, edge flaw, crack, etc. Please follow Appearance Inspection criteria upon inspection)

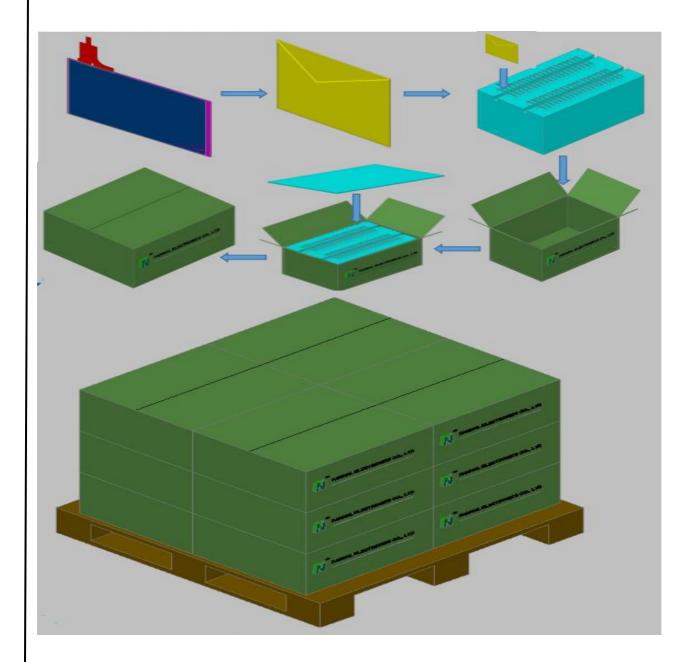
- 2.D=Diameter / W=Width / L=Length
- 3. Tail: Slight bend mark is allowed on the tail; crack or tear is not allowed.
- 4. Particle Spots: Flaws found coating if transparent, please follow Particle Spots specification.

16. Mechanical Drawing





17. Packaging



SIZE(Carton): 53X36X27.5cm