

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

Specifications for Touch Panel

Model NO: FN043AH008-V1.0

Revision: V1.0

■ Approved For Specifications Only

☐ Approved For Specifications And Sample

FANNAL			CUSTOMER
PREPARED	CHECKED	APPROVED	APPROVED

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1. Record of Revision

NO.	Content	Page	Date
1	Preliminary Specification was first issued	2	2016/6/28



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3. Module Numbering System FN 043 AH 008- V1.0 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		tive
2	Input Mode	Finger	Gloved Finger	Passive stylus
3	Connector	COF-FPC		

6. General Specification

NO.	Item	Specifications	Unit
1	Touch Panel Size	4.3(Diagonal)	inch
2	Structure	G+G	
3	Active Area	96.20(H)x55.06(V)	mm
4	Outline Dimension	105.50(H)x67.20(V)x1.83(D)	mm

7. Environmental Characteristic

NO.	.	Specifications		
	Item	Temperature	Humidity (Non-Condensing)	
1	Operation	-30~80℃	90%RH or less	
2	Storage	-40~90°C	90%RH or less	

Note: Testing environment is under normal atmospheric pressure. When the ambient temperature is above $65\,^\circ\text{C}$, the humidity is allowed to be below $50\,^\circ\text{RH}$



8. Optical Characteristic

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

9. IC Specification

NO.	Item	Specifications
1	Driver IC	CYTMA568
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	VCC		Power supply
2	RST	I	External reset signal, active low
3	INT	О	Interrupt signal, active low, asserted to request Host start a new transcation
4	SCL	I/O	I ² C clock signal
5	SDA	I/O	I ² C data signal
6	GND		System ground

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 750g/45°	
4	Hardness	Direction - W	Satisfy- 1. Optical Characteristics 2. Electrical Characteristics
		500g/cm by vertical 90° for 30sec	
5	Tail Peeling	Touch Penal S	Appearance- 1. Ignore test area 2. No mechanical damage
		90° 10times left & right	
6	Tail Bending	Touch Penal 5	



12. Reliability Test

NO.	Item	Condition	Specifications
1	Constant Temperature/Humidity	60°C X 90%RH,240hrs and normalized for 24hrs	
2	Heat Cycle	90°C/240hrs and normalized for 24hrs	Satisfy-
3	Cold Cycle	-45 °C/240hrs and normalized for 24hrs	1 Electrical Characteristics
4	Thermal Cycle	-30°C~80°C [30min/cycle]*10cycles and normalized for 24hrs	



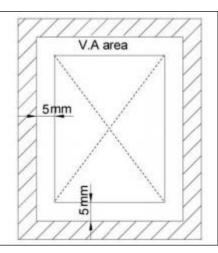
13. Function test

Function Test

Test Method:
Use Φ8 copper stick to draw the square diagonal line.

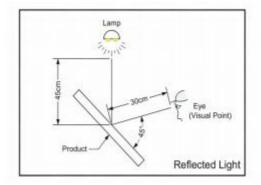
Test Area: 5mm inward view area.

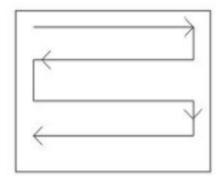
Disapproval Criteria: It is NG when we see the off-liner or jumping out spec shift.



14. Appearance Inspection

The inspection is to be performed with two 20W(1800±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
1	Dot Contamination	1)D ≤0.1mm, DS≥10mm 2)0.10mm <d≤0.30mm, ds="">10mm 3)D>0.30mm</d≤0.30mm,>
2	Linear Contamination	1)W<0.03mm 2)0.03mm≤W≤0.08mm L≤5mm 3)W≥0.08mm or L≥5mm
3	Cracks and Chips(Surface)	1)X<0.2mm, Y<0.2mm, Z<½T 2)X<0.5mm, Y<0.5mm, Z <t< td=""></t<>

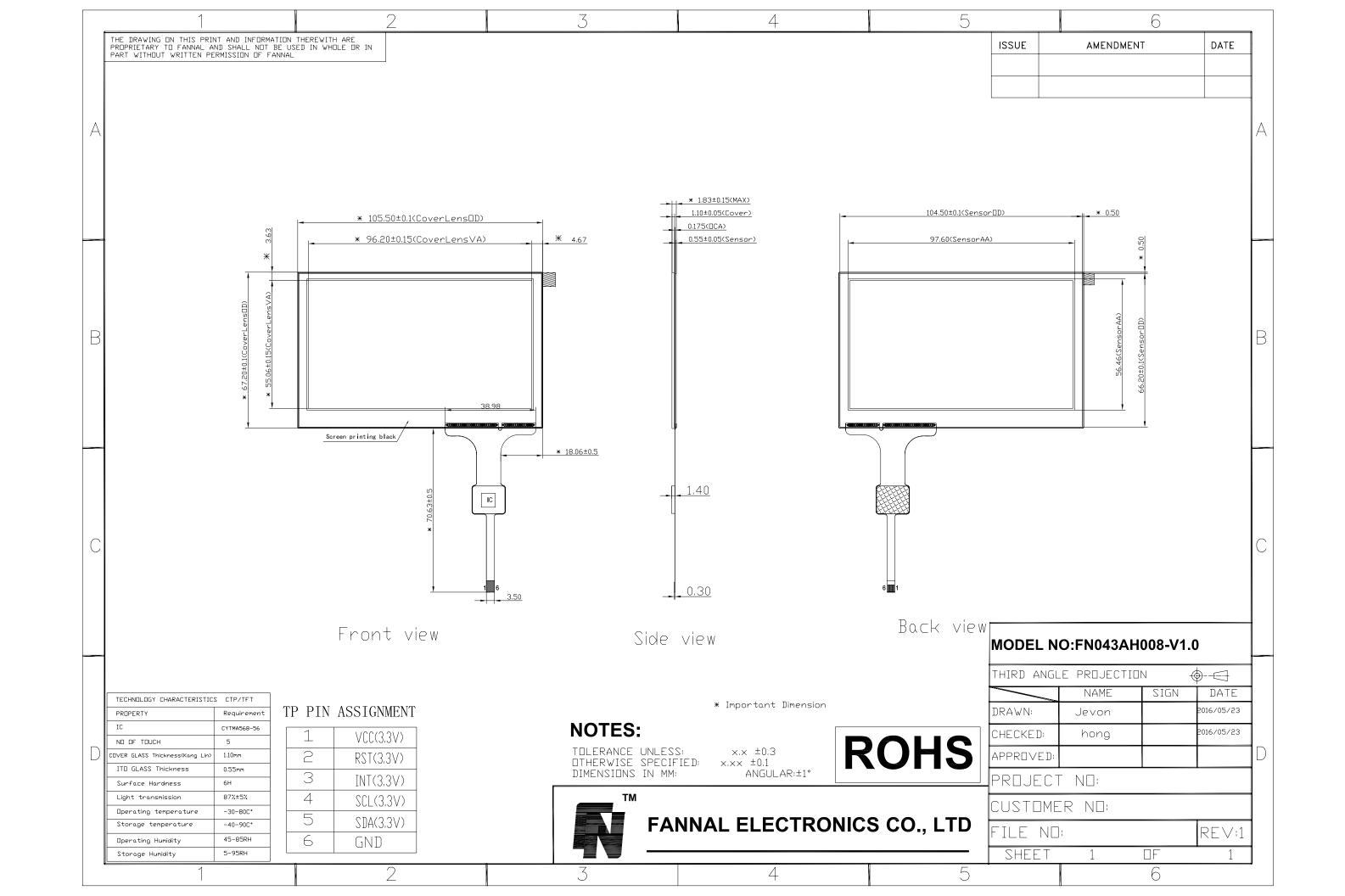
<Endorse>

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)

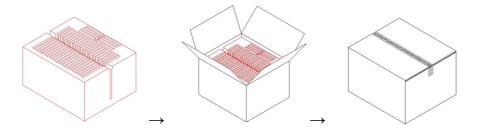
- 2.D=Diameter / W=Width / L=Length
- 3. Tail: Slight bend mark is allowed on the tail; crack or tear is not allowed.
- 4. Particle Spots: Flaws found coating if transparent, please follow Particle Spots specification.

16. Mechanical Drawing





17. Packaging



SIZE: 53X36X27.5cm