

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

Specifications for Touch Panel

Model NO: FN101A029-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

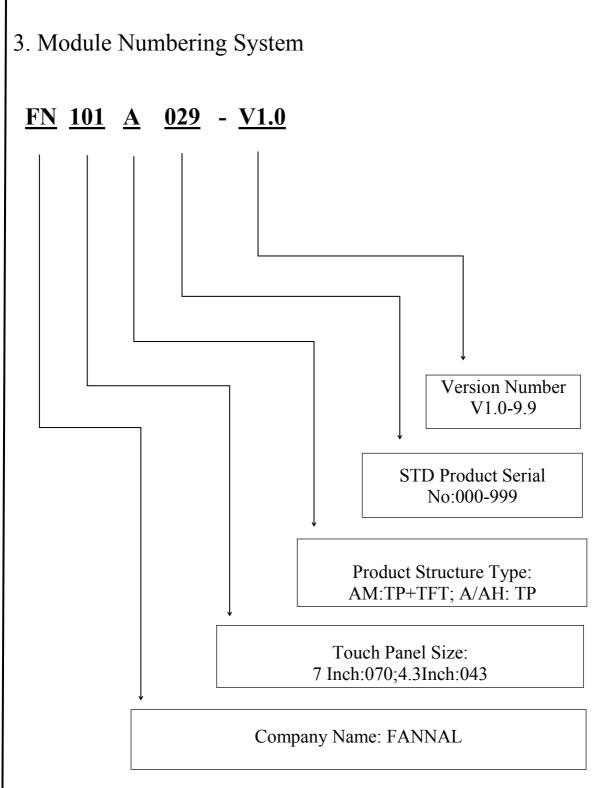
NO.	Content	Page	Date
1	Preliminary Specification was first issued	2	2016/12/2



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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	223.52(H)x126.08(V)	mm
4	Outline Dimension	234.00(H)x142.00(V)x1.45(D)	mm

7. Environmental Characteristic

	_	Specifications		
NO.	Item	Temperature	Humidity (Non-Condensing)	
1	Operation	-20∼70 °C	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 $^\circ\!C$,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	FT5426
2	Detect Points	5
3	Interface	I ² C
4	Power Supply	2.8-3.3V



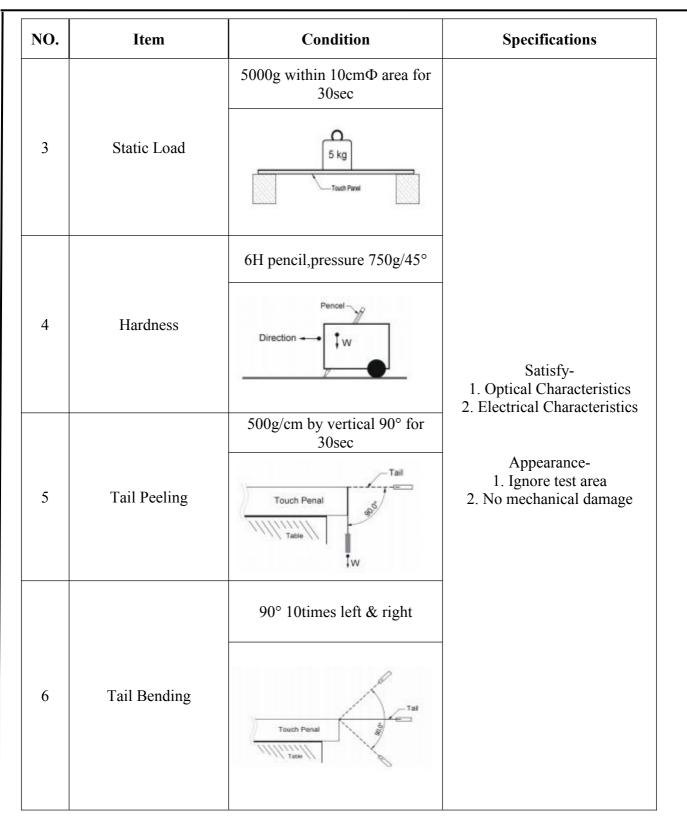
10. Pin Assignment

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(3.3V)	I/O	I ² C data signal
8	SCL(3.3V)	I/O	I ² C clock signal
9	RST	Ι	External reset signal, active low
10	INT(3.3V)	0	Interrupt signal, active low, asserted to request Host start a new transcation
11	VCC(3.3V)		Power supply
12	VCC(3.3V)		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







12. Reliability Test

NO.	Item	Condition	Specifications
1	Constant Temperature/Humidity	60°C X 90%RH,120hrs and normalized for 24hrs	
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	

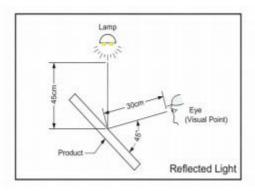


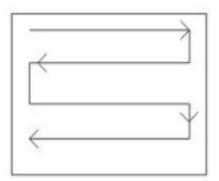
13. Function test

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.	V.A area
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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	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	Linear Contamination	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< ¹ / ₂ T	Ignore

<Endorse>

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

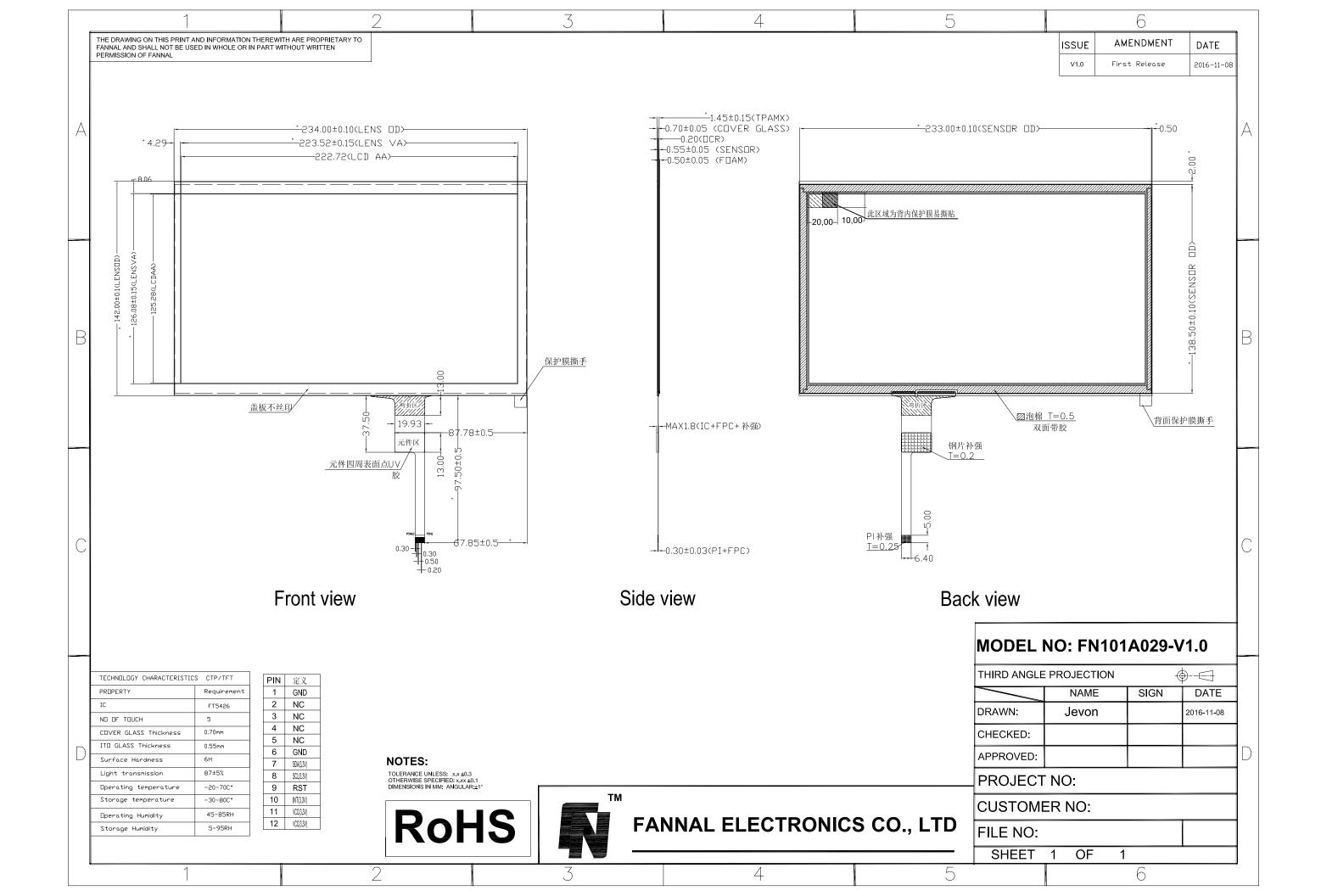
(except for glass breakage, corner flaw, edge flaw, crack, etc. Please follow Appearance Inspection criteria upon inspection)

2.D=Diameter / W=Width / L=Length

3. Tail: Slight bend mark is allowed on the tail; crack or tear is not allowed.

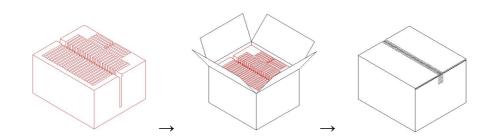
4. Particle Spots: Flaws found coating if transparent, please follow Particle Spots specification.

16. Mechanical Drawing





17. Packaging



SIZE: 53X36X27.5cm