

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

#### **Specifications for Touch Panel**

**Model NO: FN101AH015-V2.0** 

**Revision: V2.0** 

**■** 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	2016/8/15



## 2. Table of Content

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# 3. Module Numbering System FN 101 AH 015- V2.0 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		
2	Input Mode	Finger	Gloved Finger	Passive stylus
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	218.16(H)x136.80(V)	mm
4	Outline Dimension	239.46(H)x159.10(V)x1.83(D)	mm

#### 7. Environmental Characteristic

NO.	Item	Specifications		
		Temperature	Humidity (Non-Condensing)	
1	Operation	-30~80℃	45%-90%RH	
2	Storage	-40~90°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	CYTMA568
2	Detect Points	10
3	Interface	I <sup>2</sup> C
4	Power Supply	2.8-3.3V



## 10. Pin Assignment

Pin No.	Symbol	I/O	Description
1	GND		System ground
2	SDA	I/O	I <sup>2</sup> C data signal
3	SCL	I/O	I <sup>2</sup> C clock signal
4	INT	О	Interrupt signal, active low, asserted to request Host start a new transcation
5	RST	I	External reset signal, active low
6	VDD		Power supply
7	SWDIO		
8	SWDCLK		

## 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
		60°C X 90%RH,240hrs and normalized for 24hrs	
1	Constant Temperature/Humidity	60°Cx90%RH	
2	Heat Cycle	90°C/240hrs and normalized for 24hrs	Satisfy-
3	Cold Cycle	-40°C/240hrs and normalized for 24hrs	1. Electrical Characteristics
4	Thermal Cycle	-30°C~80°C [30min/cycle]*10cycles and normalized for 24hrs	



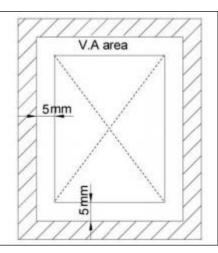
#### 13. Function test

**Function Test** 

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

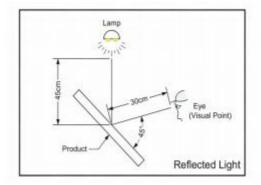
Test Area: 5mm inward view area.

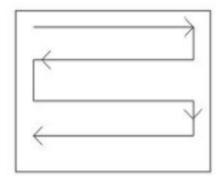
Disapproval Criteria: It is NG when we see the off-liner or jumping out spec shift.



### 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	Judgment
1		1)D ≤0.3mm, DS≥10mm 2)0.30mm <d≤0.50mm, ds="">10mm 3)D&gt;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<1/2T	Ignore

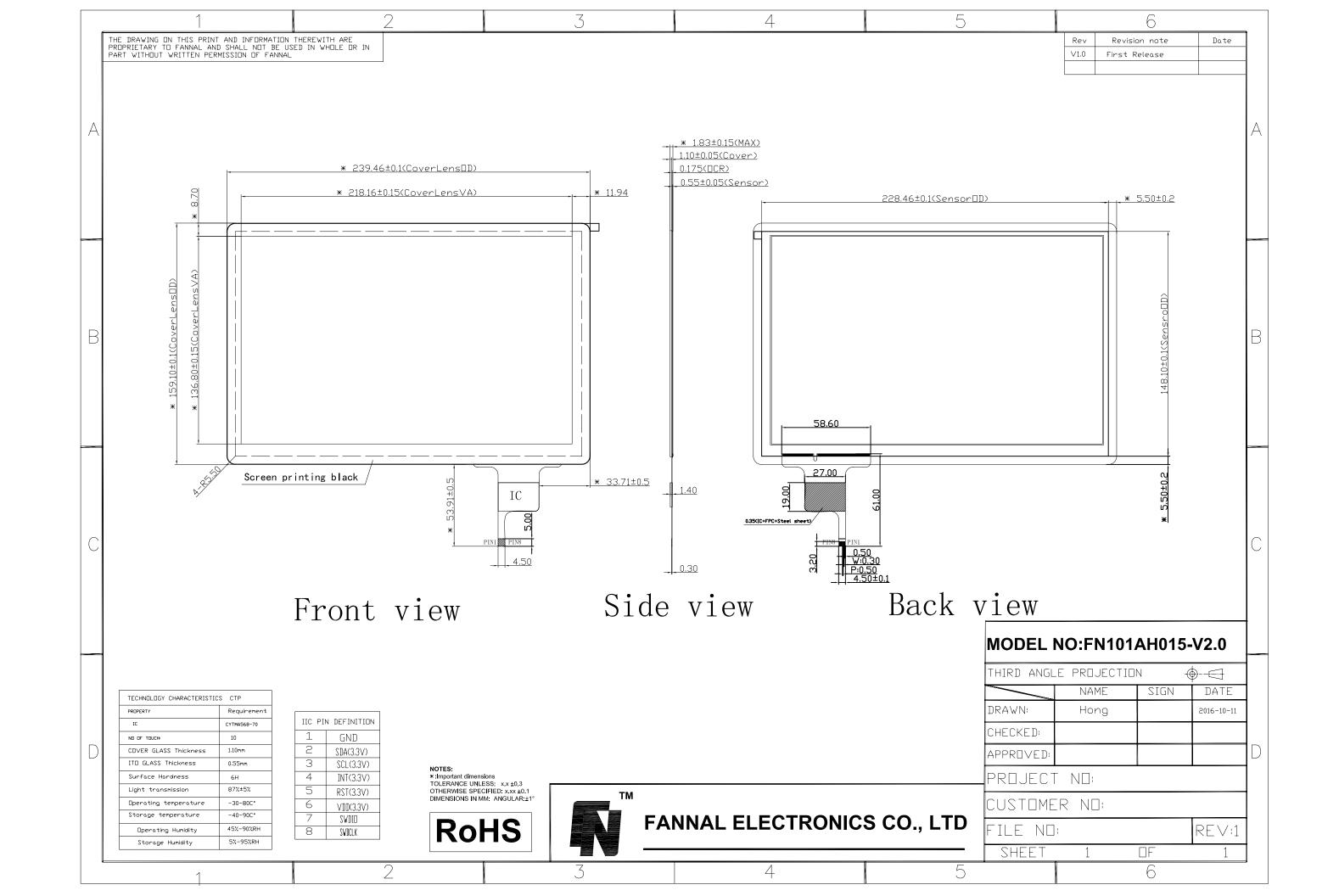
#### <Endorse>

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)

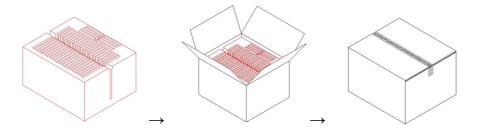
- 2.D=Diameter / W=Width / L=Length
- 3. Tail: Slight bend mark is allowed on the tail; crack or tear is not allowed.
- 4. Particle Spots: Flaws found coating if transparent, please follow Particle Spots specification.

## 16. Mechanical Drawing





## 17. Packaging



SIZE: 53X36X27.5cm