SPECIFICATION FOR APPROVAL

MODEL: RE200BET-P

PYROELECTRIC INFRARED SENSOR

CUSTOMER: APPROVED BY: DATE:

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		SHANGHAI	NICERA SE	ENSOR CO.,LTD

TYPE OF SENSOR

GENERAL PURPOSE DUAL ELEMENTS(EMS, LOW VOLTAGE,

STARTTIME FASTER TYPE.)

PHYSICAL CONFIGURATION

(1)	PACKAGE	TO-5 METAL	CAN
		SEE FIGURE	А
(2)	SENSITIVE AREA	2.3×1.0 mm	
(3)	LEAD CONFIGURATION	SEE FIGURE	B,C

<u>ELECTRICAL</u> CHARACTERISTICS (AT 25±5°C)

(1) (2)		CONFIGURATIC VOLTAGE	1~15 V	FIGURE / DC (D 170KΩ)	D rain-Grou	und)	
(3)	OFFSET	VOLTAGE	0.2~1.4	4 V			
(4)	SIGNAL	OUTPUT	Min 3	.0 Vp-p			
(5)	BALANC	E OUTPUT	(BLAC) FREQU AMP. SEE Max (BLAC) FREQU AMP.	JENCY 0.3~3.0 FIGURE 15% (So CK BODY JENCY 0.3~3.0	420K; 1Hz: MI Hz、 72. F urce-Gro 420K; 1Hz: MI	ound) CHOPPER EASUREME .5db(AT 1H: und) (B/Sa CHOPPER EASUREME .5db(AT 1H:	ENT z)) +Sb) ENT
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(6)	NOISE	OUTPUT

Max 180mV TYP 70 mV (Source-Ground) (MEASUREMENT AMP. 0.3~3.0Hz, 72.5db(AT 1Hz)) SEE FIGURE H

OPTICAL CHARACTERISTICS

(1)	FIELD OF	VIEW	143° ×132°
			SEE FIGURE I
(2)	SPECTRAL	RESPONSE	Si Filter Cuton $5.0\pm0.5 \mu$ m
			Thickness 0.5mm
			Average T \rangle 70%
			Pass Band $7.0 \sim 14\mu$

ENVIRONMENTAL REQUIREMENTS

(1)	OPERATING	TEMPERATURE	$-30 \sim +70$ °C
(2)	STORAGE	TEMPERATURE	$-40 \sim +80$ °C

X <u>NOTES</u>

1. DESIGN RESTRICTIONS/PRECAUTIONS

FOR OUTDOOR APPLICATIONS, BE SURE TO APPLY SUITABLE SUPPLEMENTARY OPTICAL FILTER AND DRIP-PROOF . ANTI-DEW CONSTRUCTION . THIS SENSOR IS DESIGNED FOR INDOOR USE . IN CASES WHERE SECONDRAY ACCIDENTS DEE TO OPERATION FAILURE OR MALFUNCTIONS CAN BE ANTICIPATED . ADD A FAIL SAFE FUNCTION TO THE DESIGN .

2. USAGE RESTRICTIONS/PRECAUTIONS

TO PREVENT SENSOR MALFUNCTIONS, OPERATIONAL, FAILURE OR ANY DETERIORATION OF ITS CHARACTERISTICS. DO NOT USE THIS SENSOR IN FOLLOWING, OR SIMILAR, CONDITIONS.

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- A. IN RAPID ENVIRONMENTAL TEMPERATURE CHANGES.
- B. IN STRONG SHOCK OR VIBRATION. CUSTOMERS TO USE FALL PROTECTION, CERAMIC CHIP FRAGILE.
- C. IN A PLACE WHERE THERE ARE OBSTRUCTING MATERIALS (GLASS.FOG.ETC) THROUGH WHICH INFRARED RAYS CANNOT PASS WITHIN DETECTION AREA.
- D. IN FLUID. CORROSIVE GASES AND SEA BREEZE.
- E. CONTINUAL USE IN HIGH HUMIDITY ATMOSPHERE.
- F. EXPOSED TO DIRECT SUN LIGHT OR HEADLIGHTS OF AUTOMOBILES.
- G. EXPOSED TO DIRECT WIND FROM A HEATER OR AIR CONDITIONS.
- H. PRODUCTION PROCESS, NOT THE ACCUMULATION OF STACKED PCB BOARD, THE FILTER IS EASILY DAMAGED.

3. ASSEMBLY RESTRICTIONS/PRECAUTIONS

SOLDERING-----

- A. USE SOLDERING IRONS WHEN SOLDERING.
- B. AVOID KEEPING PINS OF THIS HOT FOR A LONG TIME AS EXCESSIVE HEAT MAY CAUSE DETERIORATION OF ITS QUALITY.(E.G. WITHIN 5 SEC. AT 350℃)
- C. AVOID STATIC ELECTRICITYOR STRONG ELECTROMAGNETIC WAVES. RECOMMENDED TO WEAR A SHIELD RING.

WASHING-----

- A. BE SURE TO WASH OUT ALL FLUX AFTER SOLDERING AS RENAINDER MAY CAUSE MALFUNCTIONS.
- B. USE A BRUSH WHEN WASHING.WASHING WITH AN ULTRASONIC CLEANER MAY CAUSE OPERATIONAL FAILURE.

4.HANDLING AND STORAGE RESTRICTIONS/PRECAUTIONS

TO PREVENT SENSOR MALFUNCTIONS, OPERATIONAL FAILURE. APPEARANCE DAMAGE OR ANY DETERIORATION OF ITS CHARACTERISTICS. DO NOT EXPOSE THIS SENSOR TO THE FOLLOWING OR SIMILAR, HANDLING AND STORAGE CONDITIONS.

- A. VIBRATION FOR A LONG TIME.
- B. STRONG SHOCK.
- C. STATIC ELECTRICITYOR STRONG ELECTROMAGNETIC WAVES.
- D. HIGH TEMPERATURE AND HUMIDITY FOR A LONG TIME.
- E. CORROSIVE GASES OR SEA BREEZE.
- F. DIRTY AND DUSTY ENVIRONMENTS THAT MAY CONTAMINATE THE OPTICAL WINDOWS.

SENSOR TROUBLES RESULTING FROM MISUSE. INAPPROPRIATE HANDLING OR STORAGE ARE NOT THE MANUFACTURER ' S RESPONSIBILITY.

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