深圳市翰群科技有限公司

SHENZHEN CONTIN TECHNOLOGY LIMITED

RE200B 紅外探測器使用說明書

SPECIFICATION 0F PYROELECTRIC PASSIVE INFRARED SENSOR

MODEL	NO	RE200B		
PART	NO.			

6) BALANCE OUTPUT : MAX. 15 %

> | SA+SB |] ≤ 0.15 BO : BALANCE OUTPUT (BO /

SA : SIGNAL OUTPUT ON ELEMENT A SB : SIGNAL OUTPUT ON ELEMENT B

BALANCE OUTPUT IS MEASURED AT CHOPPER FREQUENCY OF 1 Hz WHEN CONNECTED TO THE AMPLIFIER OF GAIN 72.5 dB (AT 1 Hz) AND SUBMITTED TO THE EMISSION OF INFRARED ENERGY OF 13 μ W/cm² FROM 420 K BLACK BODY. SEE FIGURE 3

7) FREQUENCY RESPONSE : 0.3 Hz TO 3.0 Hz / \pm 10 dB

OPTICAL CHARACTERISTICS

: 138° FROM CENTER OF ELEMENT ON AXIS X : 125° FROM CENTER OF ELEMENT ON AXIS Y 1) FIELD OF VIEW

: SEE FIGURE 1-A

2) FILTER SUBSTRATE : SILICON

: 5.0 \pm 0.5 μ m 3) CUT ON (5 %T ABS)

: \ge 70 % AVERAGE 7∼14 μ m 4) TRANSMISSION

ENVIRONMENTAL REQUIREMENTS

1) OPERATING TEMPERATURE : -30 ℃ TO +70 ℃

2) STORAGE TEMPERATURE : -40 ℃ TO +80 ℃

3) RELATIVE HUMIDITY THE SENSOR SHALL OPERATE WITHOUT INCREASE IN NOISE OUTPUT WHEN EXPOSED TO 90 \sim 95 % RH AT 30 $^{\circ}$ CONTINUOUSLY.

4) HERMETIC SEAL THE SENSOR SHALL BE SEALED TO WITHSTAND A VACUUM OF .160 MILLIMETERS OF MERCURY.

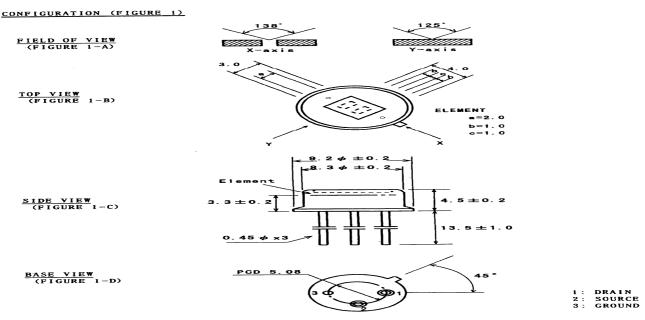
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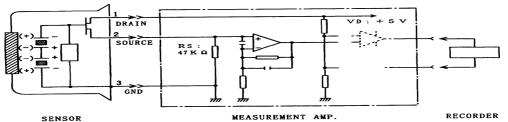
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CIRCUIT CONFIGURATION (FIGURE 2)



■ MEASUREMENT AMP.: NON-INVERTED TYPE, GAIN 72.5 dB AT 1 Hz 0.4~2.7 Hz/-3 dB

MEASUREMENT AMP.: NON-INVERTED TYPE, GAIN 72.5 dB AT 1 Hz 0.4~2.7 Hz/-3 dB

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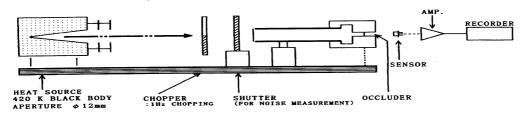
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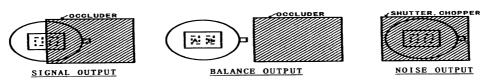
MEASUREMENT AMP.: NON-INVERTED TYPE, GAIN 72.5 dB AT 1 Hz 0.4~2.7 Hz/-3 dB

MEASUREMENT AMP.: NON-INVERTED TYPE, GAIN 72.5 dB

MEASUREMENT AMP.: NON-INVERTE TEST SET-UP BLOCK DIAGRAM (FIGURE 3)



OCCLUDER POSITION



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≫ NOTES

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 SECONDARY ACCIDENTS DUE 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 THE FOLLOWING, OR SIMILAR, CONDITIONS.

- A. IN RAPID ENVIRONMENTAL TEMPERATURE CHANGES.
- B. IN STRONG SHOCK OR VIBRATION.
- 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 CONDITIONER.

3. ASSEMBLY RESTRICTIONS/PRECAUTIONS

SOLDERING

- A. USE SOLDERING IRONS WHEN SOLDERING.
- B. AVOID KEEPING PINS OF THIS SENSOR HOT FOR A LONG TIME AS EXCESSIVE HEAT MAY CAUSE DETERIORATION OF ITS QUALITY. (E.G. WITHIN 5 SEC. AT 350 ℃)
- A. BE SURE TO WASH OUT ALL FLUX AFTER SOLDERING AS REMAINDER 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 ELECTRICITY OR 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 WINDOW.

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

MODEL NO. : RE200B		DRAWING NO. 1707982	REV:
PART NO. :	C NIPPON	CERAMIC CO.,LTD	

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