FIS5084 R32

Gas sensor module

for REFRIGERANT R32 DETECTION

FIS5084-13C1
FIS5084-13NC

RECOGNIZED COMPONENT
c ETL US LISTED
Intertek

The FIS5084 series is a reasonably priced product that incorporates a semiconductor gas sensor into the control circuit. This semiconductor gas sensor has a proven track record in the market for refrigerant gas detection for over 20 years and has gained reliability.



FIS5084-13NC (Without case)



FIS5084-13C1 (With case)

Features

- **High reliability, long lifetime and market achievements**
  The mounted semiconductor SB-type gas sensor developed by our company features high sensitivity, quick response, and excellent durability, long lifetime and many market achievements
- **Comply to IEC60335-2-40 2022/UL60335-2-40 Ed.4**
  Designed to comply with certifications that are beginning to be regulated in Europe and Japan. Already passed IEC60335-2-40 ANNEX LL 2018.
- **Easy installation in your device**
  Our module is compact, lightweight, and easy to take out the output signal. You can incorporate our module into your device easily.
- **Can be used under severe environment/condition**
  You can choose module with or without case. Module with case has moisture-proof function, so that you can use under severe environment e.g., outside, inside of refrigerator etc.
- **Various output specifications**
  - Alarm output : 1 point can be set.
  - Time output : 2 points can be set.
  - Malfunction output : Sensor failure and circuit failure can be detected.

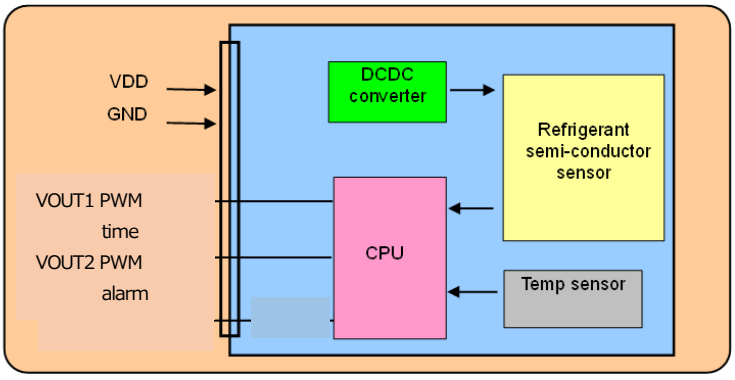
SPECIFICATIONS

©NISSHA

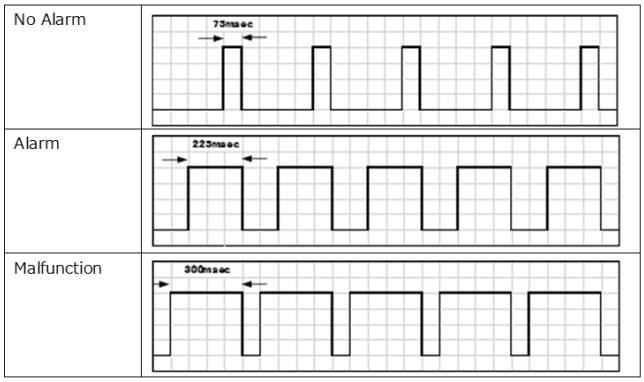
Specifications: FIS5084-13XX

Item	Specifications
Gas sensor	SB type semiconductor gas sensor
Target gas	R32
Response time	Within 30 seconds
Power supply	5.0V DC ± 5%
Alarm output	PWM, Open collector
Alarm concentration	R32 5,000ppm
Average power concentration	40mA
Operating and storage temperature range	-25～60℃、without dew condensation
Dimension	Without case 26x 26 x 20(H)mm With case 53.8 x 30 x 22(H)mm
Weight	Without case 5 g / With case 12 g
Dustproof & Waterproof	Moisture-proof paint
Lifetime	15 yrs（Durability of rainproof performance will be set separately.）

Block Diagram



VOUT 2



Applications

- Residential and commercial air conditioning systems
- Heat pump systems
- Commercial Freezers and Chiller and Refrigerated Display Cabinets
- Refrigerant leak alarm

Series	Refrigerant Gas
FIS5062	R290
FIS5084	R32
FIS5085	R454B

Please contact **September 2024**

Nissha FIS, Inc.
2-4-28, Tagawa
Yodogawa, Osaka
532-0027 Japan

Tel:+81 6-7176-3911
Fax:+81 6-7176-3912
http://www.fisinc.co.jp

In the interest of continued product improvement, we reserve the right to change design features without prior notice.

©NISSHA