REZONTECH
FLAME DETECTOR

THE BEST SOLUTION FOR FIRE DETECTION SYSTEM

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Designed and manufactured in South Korea, under Rezontech's technology and the own strict quality control system with international laboratories such as FM, ATEX, CCCF, IECEX, KFI(Korea Fire Institute) and so on. This expertise and responsibility for quality will make Rezontech meet all your needs from the fire detection.

Rezontech Co., Ltd. is the world-class Flame Detector Manufacturer has been leading Flame Detector market in Korea since 2004.

We developed first-ever UV/IR & Triple IR type Flame Detectors in Korea with own unique technology.

Rezontech keeps growing with continuous R&D for fire detection technology. Thus we acquired 20 global certificates and approvals on Flame Detectors and exported it over 50 countries in the world. We are proud to supply state of the art Flame Detectors along with the Automatic Gas Suppression system to the industry leading sites & military facilities to protect human life & asset from the fire disaster.

We will conquer the global market based on our continuous effort, know-how & reliability with the best service and best quality.

PRINCIPLE

The Rezontech flame detector can promptly analyze sensory inputs from the ultraviolet and infrared light sources emitted by a flame to alert against fires.

IR3 flame detection sensing three specific wavelength bands within the Infrared spectral region that are algorithmically analyzed. UV/IR flame detector uses UV/IR wavelength signals comparing to detect fire and minimizes false alarm.

Flame detectors are less spatial and environmental constraints such as outdoor high ceilings of industrial sites, where ordinary heat/smoke detectors cannot be used.

ADVANTAGES

Cost effective design
Providing an economical solution by long and wide detection range

False alarm immunity
Highly precise and responsive detection using our own unique algorithm

Fast Delivery
Best efforts to the faster delivery to satisfy our valuable customers

Explosion-Proof
Achieved international certificates to be used in hazardous areas

Early Fire detection
Flame Detector can detect fire typically within 5 seconds using optical Ultraviolet and Infrared sensors

Easy installation
Simple and easy Installation for anyone and any site

APPLICATION

- Oil & Gas Facilities
- Iron & Steel Facilities
- Power Station
- Chemical Facilities
- Shipyards

- Automobile Manufacturing Facilities
- Refineries
- Semi-Conductor Facilities
- UNESCO World Heritage
- Historical Site

UV/IR FLAME DETECTOR

RFD - 2000X

Type | UV/ IR
Model | RFD-2000X
Detection Range | 98.5ft(30m)
Field Of View | H90° V90°
Operating Temperature Range | -40℃ to +75℃
Humidity Range | Up to 95% relative humidity

Enclosure Material | SUS 316
Demention | W134 H117 D120mm
Weight | 3.2kg
Response | Typically 5 seconds

ELECTRICAL SPECIFICATION

Operating Voltage | 24 VDC (17 VDC to 32 VDC)
Power Consumption | 1.8W maximum at 32VDC
Output | Relay Contacts (Fire, Fault, Warning Alarm)
         4-20mA Current Output
         RS-485 Proprietary Communication
Conduit Entry Size | 2 x 1/2" NPT, M20 X 1.5 inch

APPROVALS

Performance | FM3260
Explosion-Proof | FM Class I Division 1 Groups B, C and D, Class II Division 1 Groups E,
         F and G, Class III, ATEX/IECEx Ex db IIB + H2, T6
Protection | IP67, NEMA Type 4X

RFD - 2000

Type | UV/ IR
Model | RFD-2000
Detection Range | 98.5ft(30m)
Field Of View | H90° V90°
Operating Temperature Range | -40℃ to +75℃
Humidity Range | Up to 95% relative humidity

Enclosure Material | Aluminum Alloy
Demention | W150 H125 D103mm
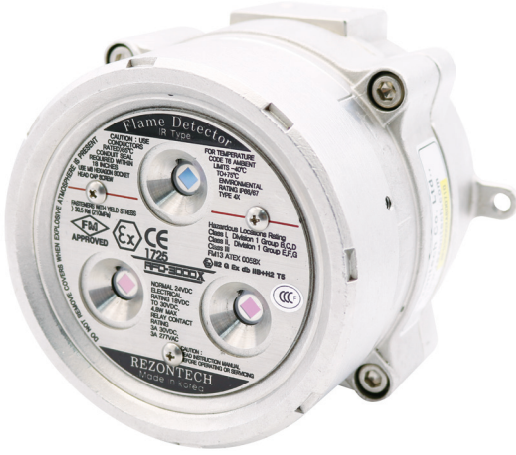**Weight |** 1.8kg
Response | Typically 5 seconds

ELECTRICAL SPECIFICATION

Operating Voltage | 24 VDC (17 VDC to 32 VDC)
Power Consumption | 1.8W maximum at 32VDC
Output | Relay Contacts (Fire, Fault, Warning Alarm)
         4-20mA Current Output
         RS-485 Proprietary Communication
Conduit Entry Size | 2 x 1/2inch PF.

APPROVALS

Performance | FM3260
Protection | IP67, NEMA Type 4X

RFD - 2FTN

Type | UV/ IR
Model | RFD-2FTN
Detection Range | 98.5ft(30m)
Field Of View | H100° V100°
Operating Temperature Range | -40℃ to +75℃
Humidity Range | Up to 95% relative humidity

Enclosure Material | Aluminum 6061
Demention | W64 H64 D75mm
Weight | 0.53kg
Response | Typically 5 seconds

ELECTRICAL SPECIFICATION

Operating Voltage | 24 VDC (17 VDC to 32 VDC)
Power Consumption | 5.8W maximum at 32VDC
Output | Relay Contacts (Fire, Fault, Warning Alarm)
         4-20mA Current Output
         RS-485 Proprietary Communication
Conduit Entry Size | 1/2 inch NPT

APPROVALS

Performance | CCCF, KFI
Explosion-Proof | ATEX, NEPSI, EX-GOST
         ATEX Ex db IIC T6 / T5 Gb
         ATEX Ex tb IIIC T85℃ / T95℃ Db
Protection | IP66, IP67

IR3 & HYDROGEN FLAME DETECTOR

RFD - 3000X

Type | IR3
Model | RFD-3000X
Detection Range | 197ft(60m)
Field Of View | H90° V90°
Operating Temperature Range | -40℃ to +75℃
Humidity Range | Up to 95% relative humidity

Enclosure Material | SUS 316
Demention | W134 H117 D112mm
Weight | 4kg
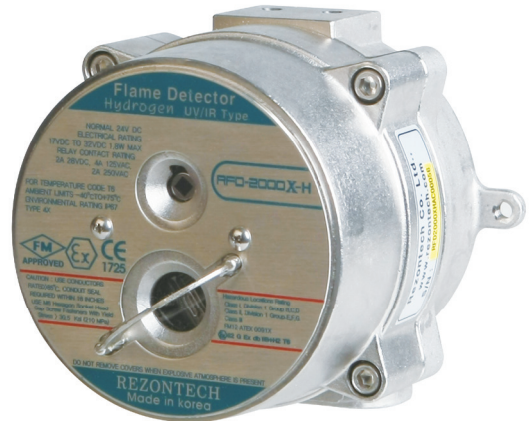**Response |** Typically 5 seconds

ELECTRICAL SPECIFICATION

Operating Voltage | 24 VDC (18 VDC to 30 VDC)
Power Consumption | 4.5W maximum at 30VDC
Output | Relay Contacts (Fire, Fault, Warning Alarm)
      4-20mA Current Output
      RS-485 Proprietary Communication
Conduit Entry Size | 2 x 1/2" NPT, M20 X 1.5 inch

APPROVALS

Performance | FM3260, CCCF, KFI
Explosion-Proof | FM Class I Division 1 Groups B, C and D Class II Division 1 Groups E,
      F and G Class III, ATEX/IECEX/NEPSI Ex db IIB + H2, T5
Protection | IP66, IP67, NEMA Type 4X

Hydrogen Flame Detector

RFD - 3000

Type | IR3
Model | RFD-3000
Detection Range | 197ft(60m)
Field Of View | H90° V90°
Operating Temperature Range | -40℃ to +75℃
Humidity Range | Up to 95% relative humidity

Enclosure Material | Aluminum Alloy
Demention | W150 H103 D125mm
Weight | 1.7kg
Response | Typically 5 seconds

ELECTRICAL SPECIFICATION

Operating Voltage | 24 VDC (18 VDC to 30 VDC)
Power Consumption | 4.5W maximum at 30VDC
Output | Relay Contacts (Fire, Fault, Warning Alarm)
      4-20mA Current Output
      RS-485 Proprietary Communication
Conduit Entry Size | 2 x 1/2 inch PF

APPROVALS

Performance | FM3260, CCCF
Protection | IP67, NEMA Type 4X

RFD - 2000X-H

Type | UV/IR & Hydrogen
Model | RFD-2000X-H
Detection Range | 98.5ft (30m) for n-Heptane fire
      15ft(4.5m) for Hydrogen fire (30 inch plume)
Field Of View | H90° V90°
Operating Temperature Range | -40℃ to +75℃   **Weight |** 3.2kg
Humidity Range | Up to 95% relative humidity   **Response |** Typically 5 seconds

Enclosure Material | SUS 316
Demention | W134 H117 D120mm

ELECTRICAL SPECIFICATION

Operating Voltage | 24 VDC (17 VDC to 32 VDC)
Power Consumption | 1.8W maximum at 32VDC
Output | Relay Contacts (Fire, Fault, Warning Alarm)
      4-20mA Current Output
      RS-485 Proprietary Communication
Conduit Entry Size | 2 x 1/2" NPT, M20 X 1.5 inch

APPROVALS

Performance | FM3260
Explosion-Proof | FM Class I Division 1 Groups B, C and D Class II Division 1 Groups E,
      F and G Class III, ATEX Ex db IIB + H2, T6
Protection | IP67, NEMA Type 4X

TEST LAMP & ACCESSORIES

FLAME DETECTOR TESTER

Rezontech test lamp produces a particular frequency of IR and UV radiation to exclusively test Rezontech flame detectors within 30 seconds. Rezontech test lamp is proper to use in hazardous areas because it can make the flame detector tested without the needs of an actual fire.

PRODUCTS

TL-3000

- Operation Distance | 3m (Max. 5m)
- Target Model | RFD-3000 and RFD-3000X
- Operation Time | Max. 3.5 hours
- Dimension & Weight | About 3.2kg / 250mm X 145mm
- Enclosure | Aluminium (Anodizing Process)
- Temperature Range | Operating : 0℃ to 50℃
　　　　　　　　　　　　 Storage : -10℃ to 60℃

TL-205

- Operation Distance | 3m (Max. 5m)
- Target Model | UV/IR flame detector
- Operation Time | Max. 2hours
- Dimension & Weight | About 3.2kg / 250mm X 145mm
- Enclosure | Aluminium (Anodizing Process)
- Temperature Range | Operating : 0℃ to 50℃
　　　　　　　　　　　　 Storage : -10℃ to 60℃

PRODUCT LINE–UP

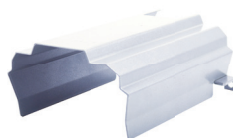| Category	Model Name	Specification			Photos	Approvals	
		Type	Range	Field of View		Performance	Explosion Proof
FM Approvals Flame Detector	RFD-2000	UV / IR	30m	90°		FM	–
	RFD-2000X	UV / IR	30m	90°		FM	FM ATEX IECEX
	RFD-2000X-H	UV / IR	30m	90°		FM	FM ATEX
	RFD-3000X	IR3	60m	90°		FM CCCF KFI	IECEX FM, ATEX NEPSI (CNEX)
	RFD-3000	IR3	60m	90°		FM CCCF	–
KFI Approved Flame Detector	RFD-2FTN	UV / IR	30m	100°		CCCF KFI	ATEX NEPSI EX-GOST
	RFD-2TN	UV / IR	30m	100°		KFI	–
	RFD-3FT	IR3	50m	90°		KFI	KGS
	RFD-3T	IR3	50m	90°		KFI	–

ACCESSORRIES

BK-01

BK-02

RSC-05

RSC-02

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REZONTECH

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