



Highly **A**dvanced **S**ensor & **O**ptics

UV/IR Flame Detector RFD-2FT

DESCRIPTION

The HASO™ UV/IR Flame Detector(RFD-2FT) is the new flame detector using digital multi-processing technology. The detector combines the technologies used in the RFD-2T and RFD-3FT to provide immunity to extraneous source. The UV/IR flame detector senses radiation energy in the narrow wave-band of both the ultraviolet and the infrared portions of the electromagnetic spectrum. The US sensor incorporates a special algorithm that prevents false alarm caused by solar radiation. The IR sensor is sensitive to the radiation of 4.3μm.

HASO™ UV/IR flame detector has a solid cone of vision for n-Heptane of 83 feet . The detector features standard fire alarm relay, fire & fault open collector, 4 to 20 mA current output, RS485 communication.

The detector has applications in a wide range of industrial and commercial facilities, where the threat of accidental fire involves hydrocarbon fuels, such as gasoline, kerosene, diesel fuel, aviation jet fuels like JP-4, JP-5, JP-8, hydraulic fluids, paints and solvents, hydrocarbon gases like ethylene and polyethylene, natural gas (LNG), town gas, liquefied petroleum gas (LPG), methane, ethane, propane, etc.

Sensing Path Test(SPT) and Event logging capability is also provided.

The compact design (1/3 of the conventional detector) makes the new sensor very easy to be installed on the all types of facilities and machines where impossible before.

HASO™ UV/IR (RFD-2FT)
RFD-2T RFD-3FT
가 UV/IR
4.3μm

HASO™ UV/IR 90°, 25m
, 4-20mA, RS485

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(JP-4, JP-5, JP-8), ,
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SPECIFICATIONS	
General	
Spectral Response	Ultraviolet and Infrared
Detection Range	25m for n-Heptane fire
Field of View	90° solid cone of vision
Response Characteristics	Typical 3 sec
Temperature Range	Operating : -40 to +80 . Storage : -50 to +90 .
Humidity Range	0 to 95% relative humidity
Electrical	
Operating Voltage	17 to 32 vdc.
Power Consumption	2.3W minimum , 5.4W maximum at 32 vdc
Wiring	16 AWG(1.22 mm ²) to 26 AWG(0.15 mm ²) shielded cable recommended.
Electromagnetic Compatibility	EMI protected
Output	
Relays	Fire Alarm: - Form A (NO contacts) - normally de-energized - latching/non-latching. - Contacts rated 5 A at 32 vdc.
Open Collector	Fire - normally de-energized Fault - normally energized - latching/non-latching. - Contacts rated 10mA at 32 vdc.
4-20mA	a maximum loop resistance of 500 ohms Fault : 0 +0.5mA Normal : 4mA ±5% Alarm : 20mA ±5%
RS-485	Proprietary communication protocol link
Mechanical	
Dimensions	64 x 64 x 75 mm
Enclosure Material	Aluminum
Shipping Weight	0.53 kg
Conduit Entry Size	1/2 inch PF.
Approvals	
Performance	Kofeic
Flame Proof	Ex d IIC T6
Water Tight	IP66
Accessoris	
Fire Simulator	TL200
Bracket	BK-1

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	25m , n-Heptane
	90° ,
	3
	: -40 ~ +80 .
	: -50 ~ +90 .
	0 ~ 95%
	17 ~ 32 vdc.
	2.3W , 5.4W
	(32vdc)
	16 AWG (1.22 mm ²) to 26 AWG (0.15 mm ²)
	EMI
	(A)
	- /
	: 32 vdc 5A
	- /
	: 32 vdc
4-20mA	10mA 500
	Fault: 0 +0.5mA
	Normal: 4mA ±5%
	Alarm: 20mA ±5%
RS-485	
	64 x 64 x 75 mm
	0.53kg
	1/2 inch PF.
	Ex d IIC T6
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