



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

UV/IR Flame Detector RFD-2FTN

DESCRIPTION

The HASO™ UV/IR Flame Detector(RFD-2FTN) 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 98 feet . The detector features standard fire and fault relay, 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) is also provided.

The compact design (1/4 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-2FTN)

RFD-2FT

UV/IR

4.3μm

HASO™ UV/IR 100°, 30m

, 4-20mA, RS485

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SPECIFICATIONS	
General	
Spectral Response	Ultraviolet and Infrared
Detection Range	30m for n-Heptane fire
Field of View	100° 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 30 vdc.
Power Consumption	2.3W minimum , 5.4W maximum at 30 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 1A at 30 vdc. Fault Alarm : - From A or B Selectable
4-20mA	- Contacts rated 1A at 30 vdc. 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	KGS, IP66
Accessoris	
Fire Simulator	TL200
Bracket	BK-1

SPECIFICATIONS	
General	
	30m , n-Heptane
	100° ,
	3
	: -40 ~ +80 .
	: -50 ~ +90 .
	0 ~ 95%
Electrical	
	17 ~ 30 vdc.
	2.3W , 5.4W
	(30vdc)
	16 AWG (1.22 mm ²) to 26 AWG (0.15 mm ²)
	EMI
	(A)
	- /
	- : 30vdc 1A
	(B , A)
	- : 30vdc 1A
4-20mA	500
	Fault : 0 +0.5mA
	Normal : 4mA ±5%
	Alarm : 20mA ±5%
RS-485	
Mechanical	
	64 x 64 x 75 mm
	0.53kg
	1/2 inch PF.
Approvals	
	Ex d IIC T6
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	TL200
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