



**H**ighly **A**dvanced **S**ensor & **O**ptics

## UV/IR Flame Detector RFD-2TN-I

### DESCRIPTION

The HASO™ UV/IR Flame Detector(RFD-2TN-I) 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 4.3 $\mu$ m.

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-2TN-I)

RFD-2T

UV/IR

4.3 $\mu$ m

HASO™ UV/IR 100°, 30m

, 4-20mA, RS485

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SPECIFICATIONS	
<b>General</b>	
<b>Spectral Response</b>	Ultraviolet and Infrared
<b>Detection Range</b>	30m for n-Heptane fire
<b>Field of View</b>	100° solid cone of vision
<b>Response Characteristics</b>	Typical 3 sec
<b>Temperature Range</b>	Operating : -40 to +80 . Storage : -50 to +90 .
<b>Humidity Range</b>	0 to 95% relative humidity
<b>Electrical</b>	
<b>Operating Voltage</b>	17 to 30 vdc.
<b>Power Consumption</b>	2.3W minimum , 5.4W maximum at 32 vdc
<b>Wiring</b>	16 AWG(1.22 mm <sup>2</sup> ) to 26 AWG(0.15 mm <sup>2</sup> ) shielded cable recommended.
<b>Electromagnetic Compatibility</b>	EMI protected
<b>Output</b>	
<b>Relays</b>	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 - Contacts rated 1A at 30 vdc.
<b>4-20mA</b>	a maximum loop resistance of 500 ohms Fault: 0 +0.5mA Normal: 4mA ±5% Alarm: 20mA ±5%
<b>RS-485</b>	Proprietary communication protocol link
<b>Mechanical</b>	
<b>Dimensions</b>	64 x 75 mm
<b>Enclosure Material</b>	Power Coating, Gold
<b>Shipping Weight</b>	0.53 kg
<b>Conduit Entry Size</b>	1/2 inch PF.
<b>Approvals</b>	
<b>Performance</b>	KOFEIC
<b>Accessoris</b>	
<b>Fire Simulator Bracket</b>	TL200 BK-1

SPECIFICATIONS	
	30m , n-Heptane
	100° ,
	3
	: -40 ~ +80 .
	: -50 ~ +90 .
	0 ~ 95%
	17 ~ 30 vdc.
	2.3W , 5.4W (30vdc )
	16 AWG (1.22 mm <sup>2</sup> ) to 26 AWG (0.15 mm <sup>2</sup> )
	EMI
	(A ):-
	- /
	- : 30vdc 1A
	(B , A )
	-
	- : 30vdc 1A
<b>4-20mA</b>	500
	Fault: 0 +0.5mA
	Normal: 4mA ±5%
	Alarm: 20mA ±5%
<b>RS-485</b>	
	64 x 75 mm
	,
	0.54kg
	1/2 inch PF.
	TL200
	BK-1