



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

## Triple IR Flame Detector RFD-3FT-I

### DESCRIPTION

The HASO™ Triple IR Flame Detector(RFD-3FT-I) is the future generation detector for performance and technology. The detector utilizes multi-signal processing algorithms supported by two microprocessor to provide continuous protection in the presence of false alarm sources and environments with infrared radiation present. It is more suitable for indoor than outdoor applications that require the highest level of false alarm rejection and fire detection performance. The detector is available in aluminum.

The HASO™ Triple IR has a solid cone of vision for n-Heptane of 167 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 patented Triple IR design offers two to three times the detection distance of any conventional IR or UV/IR detector.**

**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™ IR3 (RFD-3FT-I)

HASO™ IR3 90°, 50m  
4-20mA, RS485

[JP-4, JP-5, JP-8], 가, 가, 가, 가

- 
- IR3 / 가 2~3
- 1/4 가 가

SPECIFICATIONS	
<b>General</b>	
<b>Spectral Response</b>	Three IR Bands
<b>Detection Range</b>	50m for n-Heptane fire
<b>Field of View</b>	90° 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 32 vdc.
<b>Power Consumption</b>	2.3W minimum , 3.8W 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 5 A at 32 vdc.
<b>Open Collector</b>	Fire - normally de-energized Fault - normally energized - latching/non-latching. Contacts rated 10mA at 32 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 64 x 75 mm
<b>Enclosure Material</b>	Aluminum
<b>Shipping Weight</b>	0.52 kg
<b>Conduit Entry Size</b>	1/2 inch PF.
<b>Approvals</b>	
<b>Performance</b>	Kofeic(IN-DOOR)
<b>Flame Proof</b>	Ex d IIC T6
<b>Water Tight</b>	IP66
<b>Accessories</b>	
<b>Fire Simulator</b>	TL300
<b>Bracket</b>	BK-1

SPECIFICATIONS	
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	50m , n-Heptane
	90° ,
	3
	: -40 ~ +80 .
	: -50 ~ +90 .
	0 ~ 95%
	17 ~ 32 vdc.
	2.3W , 3.8W (32vdc )
	16 AWG (1.22 mm <sup>2</sup> ) to 26 AWG (0.15 mm <sup>2</sup> )
	EMI
	(A )
	- / : 32 vdc 5A
	- / : 32 vdc
<b>4-20mA</b>	10mA 500
	Fault : 0 +0.5mA Normal : 4mA ±5% Alarm : 20mA ±5%
<b>RS-485</b>	
	64 x 64 x 75 mm
	0.52kg
	1/2 inch PF.
	( )
	Ex d IIC T6 IP66
	TL300
	BK-1