

Triple IR Flame Detector

GTF-1100T



Features

- Detect flame with triple IR sensors.
- Preventing false alarm with sophisticated detection method.
- Maximum detection range is 60 meters with 100° vertical and horizontal field of view.
- Relay contact output functionality.
- Embedded self-diagnosis function.

Accessories



Cable gland



Mounting bracket



Weather proof cover

Detector Specification

Detection method	Triple IR
Flame	Hydrocarbon
Detection distance	50m (0.1 m ² n-Heptane pan fire) / KFI 60m (0.1 m ² n-Heptane pan fire) / FM
Field of view	Horizontal : 100° Vertical : 100°
Typical response time	5sec. (0.1m ² n-Heptane pan fire @ 60m)
Indicator	Status LED (Bi-Color : Red & Green) / Alarm LED (Red)
Output signal	0 ~ 20mA Analog current output Alarm relay 1, Trouble relay 1 (SPST 1A at 30VDC or 0.3A at 125VAC, Resistive load) RS-485 Interface (MODBUS RTU)
Power consumption	Stand by (without B.I.T.) 1.3W @32VDC / 1.2W @24VDC / 1.1W @18VDC Stand by (with B.I.T.) 2.4W @32VDC / 2.3W @24VDC / 2.2W @18VDC Alarm 1.4W @32VDC / 1.3W @24VDC / 1.2W @18VDC
Housing material	Aluminum alloy or Stainless steel
Ambient temperature	KCs : T6 = -50°C ≤ Ta ≤ 60°C, T5 = -50°C ≤ Ta ≤ 75°C, T4 = -50°C ≤ Ta ≤ 85°C FM : T6 = -40°C ≤ Ta ≤ 60°C, T5 = -40°C ≤ Ta ≤ 75°C
Storage temperature	-50°C ~ 80°C
Operating temperature	-40°C ~ 75°C
Operating humidity	Up to 95% RH (Non-condensing)
Dimensions	76(W) x 76(H) x 96.5(D) mm
Weight (Detector only)	Aluminum alloy : Approx. 0.7kg / Stainless steel : Approx. 1.7kg

Detector Certification

Explosion Proof Certification	KCs	Korean Explosion Proof Certification	Ex d IIC T6, T5, T4
	FM (Performance)	U.S. Explosion Proof and Performance Certification	FM 3260
	FM (Explosion proof)	U.S. Explosion Proof and Performance Certification	Class I, Division 1, Groups A,B,C,D, IP66/67 Class II/III, Division 1, Group E,F,G, IP66/67
	IECEX	International Explosion Proof Certification	Ex db IIC T6...T4 Gb / Ex tb IIIC T80°C Db
	ATEX	European Explosion Proof Certification	II 2G GD Ex db IIC T6...T4 Gb / Ex tb IIIC T80°C Db
	NEPSI	Chinese Explosion Proof Certification	Ex db IIC T6...T4 Gb / Ex tb IIIC T80°C Db
	PESO	Indian Explosion Proof Certification	Ex db IIC T4/T5/T6 Gb
	TS	Taiwanese Explosion Proof Certification	Ex db IIC T6...T4 Gb / Ex tb IIIC T80°C Db
Other Certifications	CE(EMC)	European Electromagnetic Compatibility Certification	-
	KFI	Korean Fire Certification	
	KC	Korean Electromagnetic Compatibility Certification	
	-	Thailand Ministry of Energy Certification	