



PT. SKOTFIRE & SAFETY TECHNOLOGY Komp. Ruko Vila Nusa Indah II Blok W3 No. 16 Bojongkulur - Gunung Putri 16969 - INDONESIA Phone: +62 21 82401515 e-mail: skotfire@skotfire.com

BALIKPAPAN BRANCH OFFICE
JI. Kol. Syarifuddin Yoes, Ruko Central Bizpark 2,
Blok HRM No 02, Balikpapan Selatan - 76114 INDONESIA
Telp +62 542 852594

MultiFlame FV-40

Flame detectors





The reliable choice for optimum performance

The Teledyne Gas & Flame Detection MultiFlame Detectors are a portfolio of smart, flexible flame detection solutions designed to sense multiple types of flame and operate reliably even in the harshest environments. The MultiFlame meets the needs of multiple industries and environments where the presence of flame poses a hazard.



A wide range of detector types to best suit a wide range of applications

Depending on the application and the types of flames most likely to be encountered in a facility, personnel can choose from a wide range of detector offerings to meet the facility's detection needs. Detectors include Single IR, Triple IR (IR3), Multi IR, UV, UV/IR2.5µm, UV/IR4.5µm and Ultra-Fast UV/IR detectors. As an additional option, detectors can be ordered with or without built-in test (BIT) capability.

The latest technology and installation options for the best detection

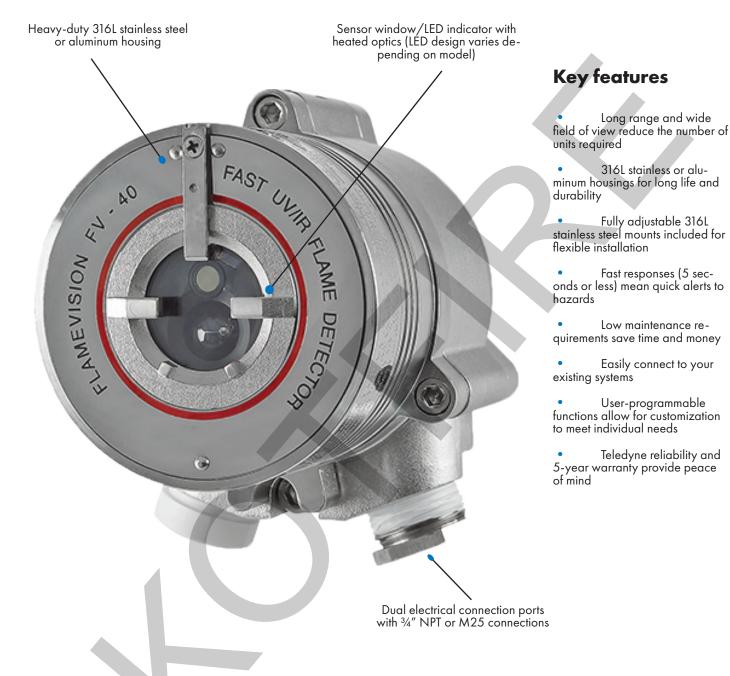
The MultiFlame FV-40 includes the latest technology for the best detection and resistance to false alarms, while keeping budgets in mind. All units feature heated sensor windows to eliminate condensation and icing, sensitivity selection, multiple regulatory approvals and flexible communication options, including 3-color LED, 0-20mA, HART ® and MODBUS ® protocols. Three built-in relays also provide triggering of external systems.

Handle challenging environments with ease

Robustly designed to handle tough work environments, MultiFlame FV-40 Flame Detectors showcase long-life and high-reliability features. A MultiFlame FV-40 can be ordered with aluminum or 316L stainless steel casings/mounts and all circuit boards are epoxy-coated for protection. All units meet MIL-C-810C standards for humidity, salt, fog, vibration, mechanical shock and temperature extremes, while the housings meet IP66, IP67 and NEMA 250 6P water and dust ingress standards. The SIL-2 approval per IEC61508 is a final statement in reliability.

Reliability and quality service protect the most Valuable assets

For over 80 years, Teledyne Gas & Flame Detection has built a strong reputation for innovation and high reliability. These same qualities are evident in the development and success of the Teledyne Gas & Flame Detection line of gas and flame detection. All Teledyne Gas & Flame Detection flame detectors are backed by the Teledyne Gas & Flame Detection team headquartered in Monroe, North Carolina, USA, with offices around the world.



Accessories



USB/RS-485 Connection Kit

Connect to a PC to adjust detector settings. For use in safe areas only



HART® Hand-Held Communicator Kit

Connect to the detector to view, change and maintain settings



Flame Simulator

Test flame detectors from a distance

MultiFlame FV-40 detector

Groups EFG DNV: MED 'Wheelmark' approval for marine

4.5µm models only)

SIL2 (TUV): approved to IEC 61508

applications (Triple IR, Combined UV/IR $2.5\mu m$ and Combined UV/IR

INMETRO: Ex d e IIC T5 Gb (àld Ex d e IIC / T5 Gb) Ex tb IIIC T96°C
Db Ta= -55°C to +75°C

			D T:	A		* 1
Base Model Number	Detector Type UV	Max. Detection Range** ft (m)	Response Time (Typical)	Description	Application	Advantages
F4-UB	UV	50 (15)	3 sec.	UV detector for	Hydrocarbon, Hydro- gen, Silane, Ammonia, other	+ High speed + Unaffected by solar radiation
F4-UV*				inorganic flames	hydrogen-based fuel fires and Metal fires	+ Low cost
F4-2B	Combined UV/IR	50 (15)	5 sec.	UV/IR 2.5 µm detection of		+ Low false alarm rate
14-2 V				inorganic flames	Hydrocarbon, Hydrogen, Silane, Ammonia, other hydro-	+ tow false diaffil fale
F4-UF	Ultra Fast UV/IR	65 (20)	3 sec. / 20 msec. to flash fire	UV/IR 2.5 µm plus explosive flame detection	gen-based fuel fires and Metal fires	
F4-4B	Combined	50 (15)	5 sec.	UV/IR 4.5 µm for	 Indoors and outdoors 	
F4-4V*	UV/IR			detection of hydrocarbon fires		
F4-IR	IR	50 (15)	5 sec.	IR detector for hydrocarbon fires	Hydrocarbon fires	+ Low cost
					- muoors	
F4-I3	Triple IR	215 (65)	5 sec.	Long range	Hydrocarbon fires	+ Highest sensitivity + High immunity to false alarms
				low false alarms	Indoors and outdoors	+ Longer detection range
F4-MM	Multi IR	HCs 215 (65) H2 100 (30)	5 sec.	Detects invisible hydrogen flames and hydrocarbon fires	Hydrocarbon and Hydrogen fires Indoors and outdoors	+ Highest sensitivity + High immunity to false alarm: + Longer detection range
	F4-UB F4-UV* F4-2B F4-2V* F4-UF F4-4B F4-4V* F4-1R	F4-UB UV F4-UV* F4-2B Combined UV/IR F4-2V* F4-UF Ultra Fast UV/IR F4-4B Combined UV/IR F4-4R IR F4-1R IR	F4-UB UV 50 (15) F4-UV* F4-2B Combined UV/IR F4-2V* F4-UF Ultra Fast UV/IR F4-4B Combined UV/IR F4-4R IR 50 (15) F4-1R IR 50 (15) F4-13 Triple IR 215 (65) F4-MM Multi IR HCs 215 (65) H2	F4-UB UV 50 (15) 3 sec. F4-UV* F4-2B Combined UV/IR 50 (15) 5 sec. F4-2V* F4-UF Ultra Fast UV/IR 50 (15) 5 sec. F4-4B Combined UV/IR 50 (15) 5 sec. F4-4R IR 50 (15) 5 sec. F4-IR IR 50 (15) 5 sec. F4-IR IR 50 (15) 5 sec.	F4-UB F4-UV* Combined UV/IR F4-2V* UV/IR F4-30 Sec. UV/IR 2,5 µm detection of organic and inorganic flames UV/IR 2.5 µm plus explosive flame detection UV/IR F4-4B Combined UV/IR F4-4B Combined UV/IR F4-4V* UV/IR F4-4V* UV/IR F4-4V* UV/IR Sec. UV/IR 4.5 µm for detection of hydrocarbon fires IR detector for hydrocarbon fires IR detector for hydrocarbon fires F4-IR IR UN/IR 1.5 µm for detection of hydrocarbon fires IR detector for hydrocarbon fires F4-IR F4-IR IR UN/IR 1.5 µm for detection of hydrocarbon fires IR detector for hydrocarbon fires IN detector for hydrocarbon fires F4-IR F4-IR IR IR UN/IR 2.5 µm plus explosive flame detection of hydrocarbon fires IV/IR 4.5 µm for detection of hydrocarbon fires IR detector for hydrocarbon fires IN detector for hydrocarbon fires	F4-UV* F4-UV* So (15) 3 sec. UV detector for organic and inorganic flames Hydrocarbon, Hydrogen-based fuel fires and Metal fires F4-UF

^{*}Units without BIT (Built in Test). **Max detection range based upon a 1ft 2 (0.1 m²) gasoline/heptane pan fire. All detectors are "Solar-blind" and are not affected by solar radiation.



AMERICAS 4055 Technology Forest Blvd. The Woodlands, TX 77381, USA Tel.: +1-713-559-9200 Fax: +1-713-893-6729

EMEA

ZI Est, Rue Orfila, CS 20417 62027 ARRAS CEDEX, France Tel.: +33-3-21-60-80-80 Fax.: +33-3-21-60-80-00

ASIA PACIFIC

290 Guiqiao Road Pudong, Shanghai 201206 People's Republic of China Tel.: +86-21-3127-6373 Fax: +86-21-3127-6365