Marketing Bulletin

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Sales ChannelProduct RangeCampaignAllFIRE DETECTIONProduct Launch

New FV400 FlameVision Flame Detectors



Tyco Fire Protection Products are pleased to provide advanced details on the new FV400 Triple IR Solar Blind Flame Detector Range which builds on the success of the well established S200+ range of devices, using the proven optics and enhanced algorithms from the S200+ range and mating these with the compact FV300 enclosure and then adding multiple interfaces and the option of an integral CCTV camera to provide a flexible detector capable of being utilised in a wide variety of environments.

Markets

The FlameVision FV400 detectors are intended for applications demanding a high level of protection and where a rapid response to fire is important. Typical applications are:-

- Refineries
- Drilling and Production Plants
- Fuel loading facilities
- Compressor Stations
- Chemical production
- LNG/LPG processing & storage
- Gas Turbines

- Waste management/transfer
- Aircraft Hangars
- Sports Stadia
- Tank Farms
- Printing Industry
- Warehousing
- Munitions Storage

Benefits

- Robust housing with heated optics ensuring no moisture build up on the lens which could reduce sensitivity
- Range of integral interface options including a 4 to 20mA output which is configurable as Sink or Source, this ensures compatibility with multiple interfaces even if the customer changes the interface unit prior to commissioning



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- Automatic monitoring of detector functionality including signal transmission through the window. This is done via an Internal IR source so that the window is tested with the same wavelengths that are being monitored for fire. In addition in most configurations the WT300 test tool can be used to simplify servicing
- Over 50m detection range with unrestricted 90° field of view
- Internal event log to help operators review post incident data
- Optional built-in CCTV to assist operators with rapid visual alarm verification

Features

- Triple waveband infrared solar blind flame detection for optimum false alarm immunity
- Unrivalled black body rejection over a wide range of source temperatures
- · Remote video monitoring of field of view and device status
- Automatic Optical Integrity Monitoring
- 4 Range settings 6m, 12.5m, 25m & 50m
- Flameproof housing certificated to EEx d IIC T4 with ATEX and ICEX approvals
- Highly configurable via switch settings or P.C. software
- FM approved
- MED Marine approved
- SIL2 certified
- Highly sensitive to flame thus increasing the probability of early detection of hydrocarbon fires over a longer range
- Able to see flames through smoke and through high densities of solvent vapours thus increasing the probability of early detection of hydrocarbon fires
- Insensitive to artificial light sources such as halogen lights
- Consistent high sensitivity flame detection throughout a 90° field of view
- Consistent detection of different types of hydrocarbon fuels from alcohol to aviation fuel
- Regular self-testing of critical electronic circuits and regular monitoring of the detector window (OIM) reducing the frequency of regular maintenance visits
- Integral flame simulation for verification of detection path enabling either easy walk-testing of the installation or testing by remote control to ensure continued reliability of the detector operation
- Options of different system interfaces as standard
- Sealed to IP66 and IP67 (when suitable cable gland and sealant are used) ensuring long term reliability in harsh environments

Range of Interfaces

The FlameVision FV400 range of detectors provide as standard the following system interfaces:

- Volt-free relay contacts for alarm and fault, programmable as normally open or normally closed
- Analogue output current in the range 4 to 20mA configurable as Sink or Source and proportional to the flame detection signal
- RS485 serial data port suitable for network connection using the MODBUS protocol
- MZX Technology digital loop interface for connection to Tyco MZX Fire Controllers
- Conventional 24Vdc Fire Controller interface
- HART Communications Interface
- Video output compatible with twisted pair video cable (only on FV412F & FV413F)

FlameVision FV400 Models

There are three FlameVision models in the FV400 detector range. There are models with and without cameras. Each model is supplied with two M20 threaded cable gland entries. An Intrinsically Safe version will be available at a later date.



New/Existing Product Codes	Description
516.300.411	FV411F TRIPLE IR FLAME DETECTOR
516.300.412	FV412F TRIPLE IR FLAME DETECTOR C/W PAL CAMERA
516.300.413	FV413F TRIPLE IR FLAME DETECTOR C/W NTSC CAMERA
517.300.001	MB300 FLAMEVISION MOUNTING BRACKET
517.300.002	WH300 FLAMEVISION STAINLESS STEEL WEATHER HOOD
517.300.021	WT300 FLAMEVISION WALK TEST TOOL
517.300.024	CTI400 FLAMEVISION OFFLINE CONFIGURATION TOOL
517.300.006	MK300 FLAMEVISION FIELD SPARES KIT

Obsolete Products

The following items are now on extended obsolescence and will become obsolete once all local approvals on the replacement products have been obtained.

Please Note that since the below products are now on extended obsolescence, any new stock returns will no longer be accepted for a credit.

Obsolete Product Codes	Description
516.037.003	S231F+ WITH CONVENTIONAL INTERFACE IN FLAMEPROOF HOUSING (ATEX)
516.037.015	S232F+ WITH CONVENTIONAL INTERFACE IN FLAMEPROOF HOUSING (FM)
516.038.003	S241F+ WITH 4-20mA INTERFACE IN FLAMEPROOF HOUSING (ATEX)
516.040.002	S261F+ WITH RELAY INTERFACE IN FLAMEPROOF HOUSING (ATEX)
516.041.003	S271F+ WITH MZX INTERFACE IN FLAMEPROOF HOUSING (ATEX)
516.040.014	FV282F+ WITH 4-20mA & RELAY INTERFACE IN FLAMEPROOF HOUSING (FM)