talentum®

Flame detection across the spectrum

Range Brochure

Talentum® - Why use our Flame Detectors?

Talentum® Flame Detectors are ideal for applications where fast acting and accurate detection of fire is essential. Using infra-red (IR) sensing technology they can detect flames from all fuel types, from hydrocarbon fires with 4.3μm emissions through to invisible fires such as hydrogen. Talentum® detectors can detect flames through such elements as dust, steam and smoke; they are also immune to the effects of wind or draughts of air. With the addition of an ultra-violet (UV) sensor Talentum detectors are highly immune to false signals such as sunlight.

The detectors use advanced IR and UV technologies, making Talentum® one of the fastest, most reliable and accurate flame detectors in the world. It's technology is truly unique, looking at both the characteristic flicker and energy produced by flames.

Talentum® is the detector of choice for high value, high risk applications - varying from nuclear power sites, waste disposal plants to supersonic cars.

Talentum® provides detection you can trust.

Product Support

FFE offer design assistance for Talentum® flame detection applications, ensuring that you have the correct detectors for the application, as well as providing drawings to assist you with installation. In addition, training programmes for the Talentum range are available. This can be tailor-made to suit you and your company, and are held typically at the FFE head office in Hitchin, UK by our in-house technical support team.

Warranty

FFE offers a 3-year warranty as standard on all of the Talentum® Flame Detectors.

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Product Range

IR² Flame Detector
(Dual Infra-red)
High immunity to false sources
(for indoor areas)

IR³ Flame Detector
(Triple Infra-red)
Excellent immunity to false sources
(for indoor or outdoor areas)

UV / IR² Flame Detector
(Ultra-Violet, Dual Infra-red)
Highest immunity to false sources
(for indoor or outdoor areas)

IR Spark Detector
(Single Infra-red)
Specialist applications
(for enclosed and dark areas)

Applications

- Compressor Stations
- Chemical Plants
- Tunnels
- Waste Recycling
- Nuclear Power Sites
- Engine Rooms
- Spray Booths
- Pharmaceutical Production
- Military Applications
- Marine Applications
- Coal Handling
- Printing
- LNG/LPG Production

Applications

- Refineries
- Compressor Stations
- Fuel Loading Racks
- Chemical Sites
- Tunnels
- Waste Recycling
- Nuclear Power Sites
- Storage Tanks
- Engine Rooms
- Spray Booths
- Pharmaceutical Production
- Military Applications
- Marine Applications
- Coal Handling
- Printing
- Biomass Storage & Handling
- LNG/LPG Production

Applications

- Refineries
- Generators
- Compressor Stations
- High Voltage Equipment
- Power Plants
- Fuel Loading Racks
- Chemical Plants
- Tunnels
- Nuclear Power Sites
- Storage Tanks
- Engine Rooms
- Aircraft Hangers
- Pharmaceutical Production
- Military Applications
- Marine Applications
- Petrochemical
- LNG/LPG Production
- Waste Recycling

Applications

- Agriculture
- Bed Fillings
- Coal Milling
- Dryers
- Dust Collection & Filters
- Felt Manufacture
- Wallpaper Production
- Woodworking
- Waste Recycling
- Cotton Production

Dual IR (IR^2) Flame Detectors

These detectors are sensitive to flickering, low frequency (1 to 15Hz) IR radiation emitted by flames during combustion. Should the lens become contaminated by a layer of oil, dust, water or ice, the unit will remain an effective flame detector. The detector has two IR sensors which respond to different IR wavelengths in order to discriminate between flames and other sources of radiation. They are ideal for applications where visible light is present.

IR^2 Flame Detector (Part No. 16581)

- Die cast zinc alloy housing
- High optical interference immunity
- SIL 2 certified

IR^2 Flame Detector - Intrinsically Safe (IS) (Part No. 16571)

- Die cast zinc alloy housing
- High optical interference immunity
- SIL 2 certified

IR^2 Flame Detector - Flameproof (Exd) (Part No. 16511)

- Copper free aluminium alloy housing
- High optical interference immunity
- SIL 2 certified

Triple IR (IR^3) Flame Detectors

These detectors have high immunity to false alarms. They are sensitive to flickering, low frequency (1 to 15Hz) IR radiation emitted by flames during combustion. They will continue to function under the most difficult of conditions, even if the lens is contaminated by a layer of oil, dust, water or ice. The detector has three IR sensors which respond to different IR wavelengths in order to discriminate between flames and other sources of radiation. They are ideal for indoor or outdoor applications.

IR^3 Flame Detector (Part No. 16589)

- Die cast zinc alloy housing
- Excellent optical interference immunity
- SIL 2 certified

IR^3 Flame Detector - Intrinsically Safe (IS) (Part No. 16579)

- Die cast zinc alloy housing
- Excellent optical interference immunity
- SIL 2 certified

IR^3 Flame Detector - Flameproof (Exd) (Part No. 16519)

- Copper free aluminium alloy housing
- Excellent interference immunity
- SIL 2 certified

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UV / IR² Flame Detectors

These detectors give the highest immunity to false alarms. They are sensitive to flickering, low frequency (1 to 15Hz) IR radiation along with UV emitted by flames during combustion. The detector has a UV sensor and two IR sensors that respond to different wavelengths from both the UV and the IR spectrum. False alarms from flickering sunlight, arc welding and lightning are eliminated by a combination of UV and dual IR signal processing techniques. They are ideal for indoor or outdoor applications.

UV / IR² Flame Detector (Part No. 16591)

- Die cast zinc alloy housing
- High optical interference immunity
- SIL 2 certified

UV / IR² Flame Detector - Flameproof (Exd) (Part No. 16521)

- Copper free aluminium alloy housing
- High optical interference immunity
- SIL 2 certified

Single IR Spark Detectors

The Single IR Spark detector is designed to detect glowing embers and sparks in conductor / extraction ducts and conveyor belts. This detector has high sensitivity to embers and sparks and has a very fast response time. The detector has one IR sensor, which is sensitive to low frequency modulated IR radiation such as that emitted from embers and sparks.

Single IR Spark Detector for Bayonet Mounting (Part No. 16580)

- Continues operation at temperatures up to 55°C
- High sensitivity to embers and sparks
- Ideal for use on conductor / extraction ducts and conveyor belts
- Detects through layers of dust or dense material flow

Single IR Intrinsically Safe Spark Detector for Bayonet Mounting (Part No. 16570)

- Intrinsically Safe (IS) for hazardous areas
- High sensitivity to embers and sparks
- Ideal for use on conductor / extraction ducts and conveyor belts
- Detects through layers of dust or dense material flow

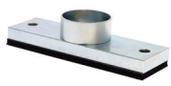
Spark Detector Accessories

Bayonet - Mount 1" BSP/NPT Male (Plated Steel) (Part No. 12290)

Bayonet - Blanking Plug (Solid) (Part No. 12453)

2 Hole Mounting Flange Kit (Part No. 12564)

- 1" BSP/NPT (No window)
- For use with bayonet mount 12290



4 Hole Mounting Flange with 1" BSP/NPT (Part No. 12561)

- Pyrex window 5.5mm thick
- High temperature gaskets and fixings
- For use with bayonet mount 12290

Specialist Application Detectors

IR² Flame Detector - Stainless Steel (Part No. 16501)
- Stainless steel 316 housing
- SIL 2 certified

IR² Flame Detector - Stainless Steel, Flameproof (Exd) (Part No. 16541)
- Stainless steel 316 housing
- SIL 2, ATEX & IECEx certified

IR³ Flame Detector - Stainless Steel (Part No. 16509)
- Stainless steel 316 housing
- SIL 2 certified

IR³ Flame Detector - Stainless Steel, Flameproof (Exd) (Part No. 16549)
- Stainless steel 316 housing
- SIL 2, ATEX & IECEx certified

IR³ Flame Detector - Flameproof (Exd), High Ambient Temperatures (Part No. 16219)
- Copper free aluminium alloy housing
- Continuous operation at temperatures up to 85°C, short term operation at temperatures up to 125°C
- ATEX & IECEx certified

UV / IR² Flame Detector - Stainless Steel (Part No. 16531)
- Stainless steel 316 housing
- SIL 2 certified

UV / IR² Flame Detector - High Ambient Temperatures (Part No. 16291)
- Die cast zinc alloy housing
- Continuous operation at temperatures up to 85°C, short term operation at temperatures up to 125°C

UV / IR² Flame Detector - Flameproof (Exd), High Ambient Temperatures (Part No. 16221)
- Copper free aluminium alloy housing
- Continuous operation at temperatures up to 85°C, short term operation at temperatures up to 125°C
- ATEX certified

UV / IR² Flame Detector - Stainless Steel, Flameproof (Exd) (Part No. 16561)
- Stainless steel 316 housing
- SIL 2 & ATEX certified

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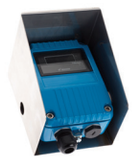
Talentum® Accessories

Adjustable Mounting Bracket (Part No. 07127)
- Stainless steel 316
- Suitable for all front viewing detectors

Electrical Isolation Mount for Brackets (Part No. 07296)
- Quick release clips
- Marine grade materials

Stainless Steel Weather Shield (Part No. 12545)
- For all alloy housings



Stainless Steel 316 Weather Shield (Part No. 07310)
- For all Exd housings

Flame Detector Test Unit (Part No. 16091)
- Portable with rechargeable battery pack and charger
- Wide spectral output; UV, visible, near-IR, mid-IR
- Selectable output; constant, regular flash, irregular flicker
- Includes transport case

Purge Air Adaptor (Part No. 12543)
- 1/4" BSP air inlet to keep viewing window clear from heavy dust contamination
- For use with 2 hole mount 12564

Purge Air Adaptor (Part No. 12554)
- 1/4" BSP air inlet to keep viewing window clear from heavy dust contamination
- For use with 4 hole mount 12561

Air Purge Kit (Part No. 12556 & 12555)