

# Applications for Marine Intelligent Base Mounted Flame Detectors



## Product overview

<b>Product</b>	<b>Marine Intelligent Base Mounted UV Flame Detector</b>
<b>Part No.</b>	<b>55000-027MAR</b>
<b>Product</b>	<b>Marine Intelligent Base Mounted IR<sup>2</sup> Flame Detector</b>
<b>Part No.</b>	<b>55000-028MAR</b>
<b>Product</b>	<b>Marine Intelligent Base Mounted IR<sup>3</sup> Flame Detector</b>
<b>Part No.</b>	<b>55000-029MAR</b>

## Applications

Apollo Flame Detectors are designed to protect indoor areas where open fires may be expected.

### Ultra Violet (UV)

UV flame detectors are used when detection is required to be unaffected by convection currents, draughts or winds. These include engine rooms in ships, factories and warehouses.

They are fast reacting and respond to a flame more than 25 m away. The UV flame detector is affected by arc welding, electrical sparks, lightning, nuclear radiation and UV light sources. For applications where these phenomena are present a UV flame detector should not be used.

### UV/Dual Infra-red (IR)

This detector is not affected by any of the sources mentioned above. They are used in aircraft hangars, generator rooms (diesel and gas turbines), ship's engine rooms and paint works.

### Triple IR

The triple IR flame detector is also fast reacting but is also tolerant of fumes, vapours, steam, dust and mist, whilst being unaffected by arc welding, electrical sparks, lightning, nuclear radiation and UV light sources. It may, however, be affected by modulated IR radiation. Triple IR flame detectors are used in waste handling, colour printing and paper manufacturing situations.

Applications	UV	UV/IR <sup>2</sup>	IR <sup>3</sup>
Aerospace Industry (Hydrogen and Hydrazine fuels)	✓	✓	✓
Aircraft Hangars (under-wing and over-wing protection, military and civil applications)		✓	✓
Automotive ( Manufacturing and paint spray booths)		✓	✓
Battery charging areas		✓	✓
Chemical production plants	✓	✓	✓
Chemical stores	✓	✓	✓
Chemical transportation	✓	✓	✓
Compressor stations		✓	✓
Drilling and production platforms		✓	✓
Explosives and Munitions	✓	✓	✓
Ferries and Cargo boats		✓	✓
Fuel loading facilities		✓	✓
Fuel stores	✓	✓	✓
Large industrial warehouses		✓	✓
Large industrial plants	✓		✓
LNG/LPG Processing and storage facilities		✓	✓
Loading racks		✓	✓
Magnesium dry treatment (milling)	✓		
Motor test beds	✓	✓	
Natural gas transfer points		✓	✓
Offshore platforms		✓	✓
Oil and Gas (exploration, production, storage and offloading)		✓	✓
Oil refineries		✓	✓
Onshore (refineries, loading terminals and pipelines)		✓	✓
Paint manufacturing	✓	✓	✓
Paint and Solvent processes	✓	✓	✓
Petrol storage and pump stations		✓	✓
Petrochemical (production, storage and shipping facilities)	✓	✓	✓
Pharmaceutical Industry	✓	✓	✓
Polymers, solvents and glues	✓	✓	✓
Power generation facilities		✓	
Power plants		✓	✓
Printing works	✓	✓	✓
Production facilities			✓
Propane and Butane filling stations		✓	✓
Pump stations	✓	✓	✓
Ships' engine rooms	✓	✓	✓
Tank farms		✓	
Transformer stations		✓	✓
Turbine enclosures		✓	✓
Underground tunnels		✓	✓
Warehouses (storage facilities for flammable materials)	✓	✓	✓
Waste disposal/recycling		✓	✓
Wood product industry	✓		✓
Wood stores			✓