



SCUTUM

HIGH HAZARD ENVIRONMENTS

Protecting property and life in the
tunnel and transportation sectors

SCUTUM UK

Fire Protection | Security | Remote Monitoring

Scutum UK is a single-source provider of world class fire and security solutions, protecting the assets, property, staff and data of leading UK organisations for over 30 years. From our network of regional offices we have designed, installed, commissioned and maintained integrated systems at over 5000 sites across the UK. As part of the wider European Scutum Group we are a leader in fire and security solutions.

Experienced and Dedicated

From start to finish, our experienced team ensures we follow industry best practices and meet all relevant standards. We are dedicated to excellence and our staff receive extensive training on the latest technologies to ensure we offer our customers the best solutions to meet their individual needs.

Trusted and Accredited

Trust is earned by doing what we say we will, demanding care, consistency and competence, committing us to high ethical standards and is central to who and what we are. We deliver on our promises, meeting our customers' requirement for quality, delivery, responsiveness and reliability.

Testing our values is central to our business ethos and we engage in a programme of rigorous 3rd party accreditations:





FIRE & GAS DETECTION

Fast and Highly Reliable Detection Response

ASAt technology™ Detectors offer advanced signal analysis and selectable parameter sets. As a result, they ensure very fast and highly reliable detection of the fire criteria; smoke, heat and carbon monoxide, in the most demanding of applications from data centres to industrial production facilities.

Point Detectors

Point detectors incorporating ASAt technology™ are especially suited for demanding applications with a high risk of fire and many deceptive phenomena. Applications include hotel rooms where the detector must be mounted close to the bathroom door, multi-purpose halls and large conference rooms.

Flame Detectors

Areas containing highly flammable materials, such as flammable stores are better covered with flame detectors. Scutum UK's flame detector range include both single-channel IR for simple applications as well as 3-channel IR for areas with deceptive phenomena such as halogen lamps, bright sunlight or welding.

ATEX Detectors

Ex solutions are the ideal choice for all gas zones 0, 1 and 2. Scutum UK offer a complete range of detectors that can be used to protect areas subject to explosion hazards, such as oil refineries, flour mills or battery rooms. Excellent detection reliability and immunity to deceptive phenomena prevent unnecessary downtime and costs caused by false alarms.

High Hazard

We offer complete turnkey solutions for the Tunnel Operations Business Sector, providing project specific hazard analysis and development of optimised solutions. From ATEX compliant electronic detection, Chemical and Inert gas to water mist suppression, Scutum UK deliver solutions utilising our CompEX trained expertise.

Established and Proven

Our detectors are backed by expertise gained from over two decades of installing systems to protect some of the most demanding and delicate installations across the UK. Protecting people, assets and maintaining business continuity are all paramount to Scutum UK.



Solution
Partner

Fire, Security
& High Hazard
Solutions

SIEMENS



FIRE AND GAS

1. Linear Heat Detection

Linear heat detection is installed within each tunnel, in the access voids beneath the roadways and within the sump area, protecting all accessible areas within the tunnel system.

2. Gas Sampling Detection

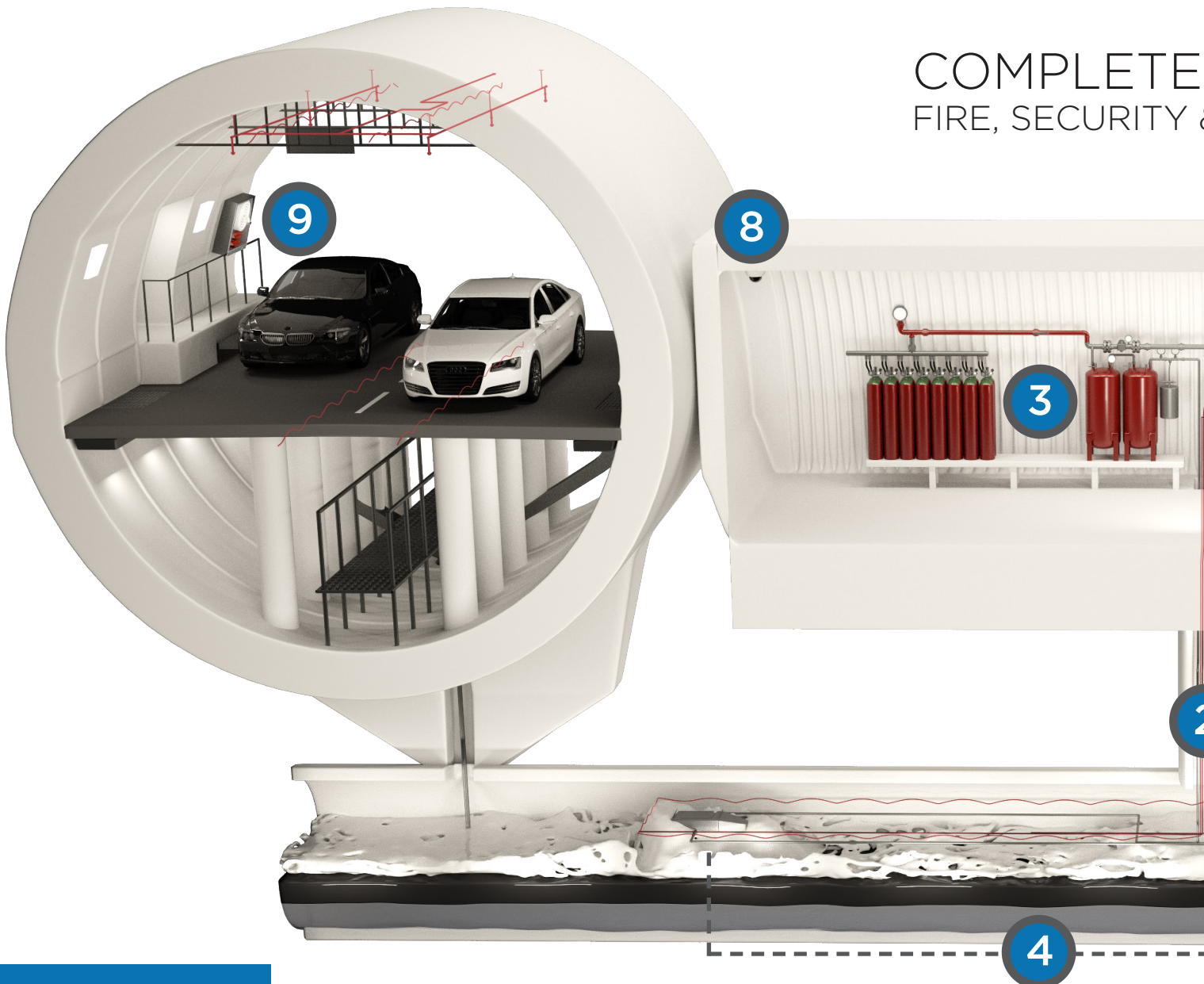
Within the sump gas is sampled by drawing it upwards, through individual pipes, to the gas detection panel from multiple points along the length of sump.

3. Nitrogen Foam Skid

Consisting of inert gas and water tank, the system can be activated in the event of a fire detection panel.

4. Nitrogen Foam Generator

At the generator both foam and inert gas are mixed to create an inert gas foam blanket. The foam is then used for extinguishing the fire.



SECURITY

7. Access Control

The plant room is secured via a combination of biometric and RFID access control. A security management system provides an audit of who accessed the room at any given time.

8. CCTV

HD IP cameras monitor secure areas. The room is accessed. Frame rates drop inactivity and powerful video analysis.

tanks, the gas foam extinguishing
ent that gas is detected by the

ert gas combine and create
m fills the entire sump volume,

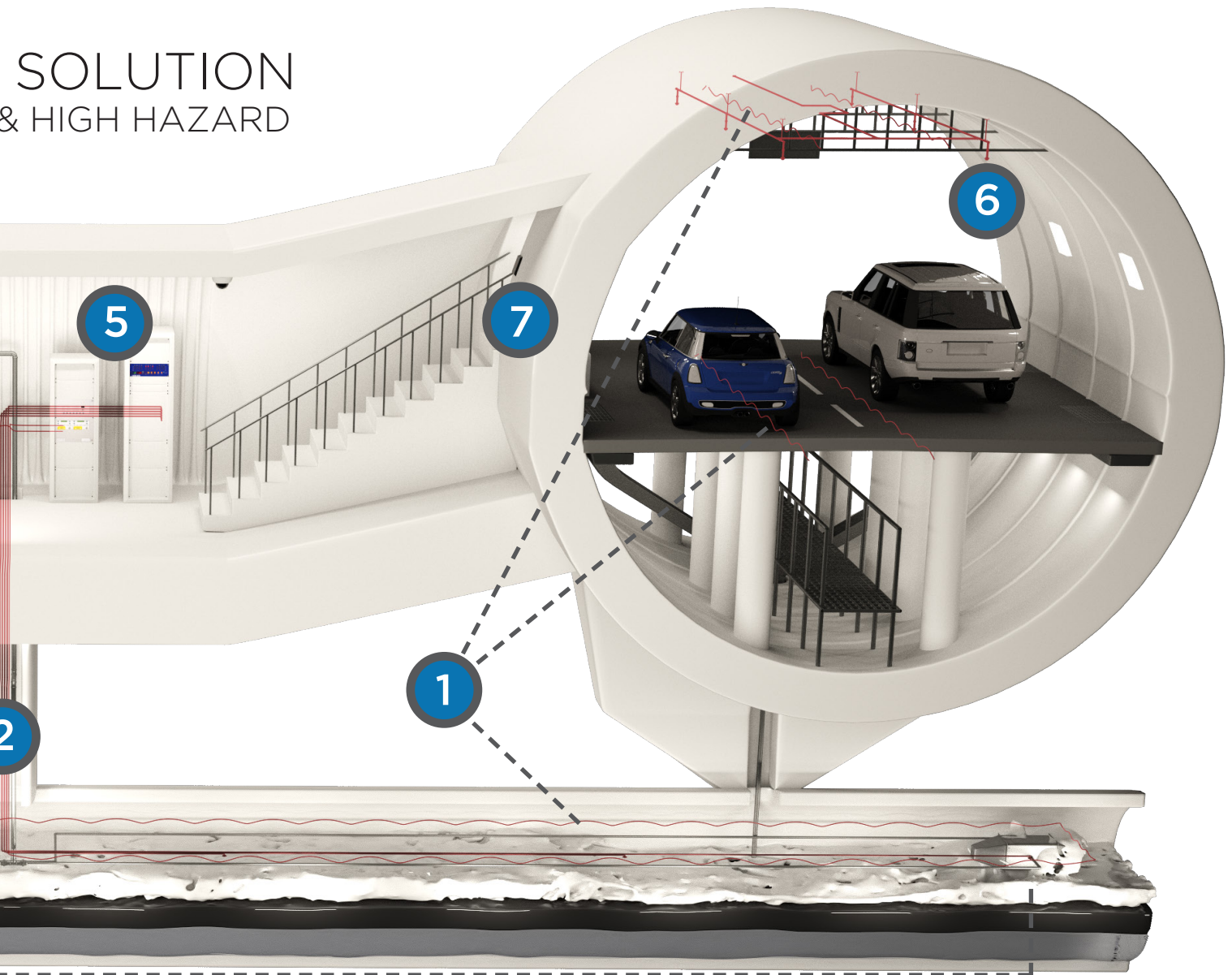
5. Gas Detection & Extinguishing Panels

Gas detection panels constantly sample gas levels. If gas reaches critical levels or ignition is detected, the system is activated either before a fire occurs, or before any significant fire damage.

6. Water Mist

Water mist systems above the roadway protect traffic without any damage to vehicles. The vapour cools the area, lowering oxygen levels and protecting any adjoining risks.

SOLUTION & HIGH HAZARD



as. Cameras reposition if the
p to save on storage during
ytics alert if motion is detected.

9. Hydrants, Emergency Points, Hose Reels

Emergency points along the tunnel provide a hydrant system to supply charged water close to a potential fire via hose reels, as well as portable fire extinguishers.



Argonite® C60

Argonite C60 is a total flooding system that is highly effective in extinguishing fires in enclosed rooms and spaces. It reduces the oxygen concentration in the air from the normal 21%, to below the 15% level needed to support combustion. This extinguishing atmosphere is retained in the enclosure long after the discharge, minimising agent leakage.

CO2

CO2 is a colourless, odourless, inert gas that is non-conductive, causing no damage or residue. Suitable for even the most inaccessible areas of risk, CO2 extinguishes fire by reducing the oxygen level to the point where combustion cannot be sustained. High mass flow rates enable the system to react within the first few seconds of a fire.

Inergen® (I.G.541)

Inergen is singularly unique in that no other inert gas has the ability to rapidly extinguish a fire, while providing a safe environment for any person within the occupied area. Inergen does not create toxic or corrosive by-products and has been used extensively throughout the world as a preferred gaseous fire suppression agent for over sixteen years.

Nitrogen Foam

Nitrogen foam inerting provides a safe working environment in the presence of hydrocarbon gases. Particularly suited to sumps, our nitrogen foam inerting solution is fast, reliable, cost-effective, biodegradable and eliminates the risk of explosions. It is stable and visible, providing visual proof of the inert system.

Novec 1230

The next generation in gaseous fire suppression technology, designed to protect human life and high value assets. It meets industry concerns for safety, performance and the environment. Novec distributes uniformly throughout the hazard zone and reaches extinguishing concentrations in ten seconds or less.

Water Mist

Watermist is a versatile and highly efficient fire-fighting medium, combining the fire suppression properties of both conventional water-based systems and gaseous fire suppression systems. Scutum UK design and install both a low and a high-pressure version of water mist, delivering droplet momentum to the seat of the fire.





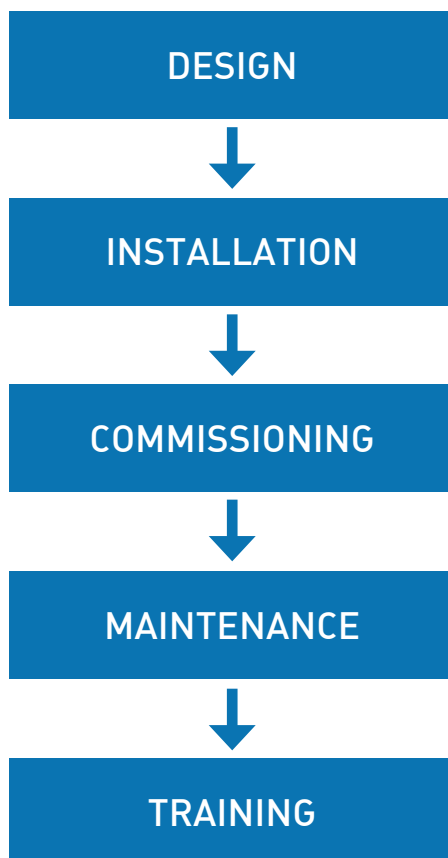
HIGH HAZARD

Turnkey Solutions

The Scutum UK High Hazard Division provides complete turnkey solutions and services throughout the oil, gas and petrochemical industries. The Division's role is to provide project specific hazard analysis and development of optimised solutions. From conception Scutum UK supports the client's design and engineering teams, discussing their detailed requirements.

Clean, Versatile, Fast and Efficient

Scutum UK gas suppression systems can be used in some of the most hazardous and inaccessible areas. They can react extremely quickly with high mass flow rates to efficiently suppress a fire without any odour, residue, damage or mess. Non-conductive gases are also safe for use on electrical equipment.



At the Cutting Edge

Scutum UK has considerable resources, being staffed by qualified, experienced personnel with a keen focus on customer care, ensuring consistent delivery of a high quality service. Our experienced Engineers and Designers use the most up to date computer aided technology, applying it to systems throughout the Oil, Gas and Petrochemical industries on a number of diverse applications.

Safety, Performance and the Environment

Our next generation gaseous fire suppression technologies ensure that we stay at the forefront of safety, providing high performance suppression systems that are safe, clean and environmentally friendly.



The Scutum Group

Scutum Group UK is part of the Scutum Group, a leading European and US independent player in safety and security, serving over 115,000 sites across Europe and the US. Scutum provides highly reliable, innovative and customised equipment and services for all industries.

Scutum Group UK Locations

Scutum Group UK operates nationally from offices throughout the UK; strategically positioned to support our customers, offer the best possible solutions to meet their needs and provide a national reach with a personal service.

Scutum Group UK Head Office

St Ann's House
St Ann's Road
CHERTSEY
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