

FIRETRACE INTERNATIONAL (EMEA)



FIRETRACE® protection for Delhi's new airport terminal

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Mission-critical electrical control cabinets at Delhi International Airport's new Terminal Three building are being protected by Firetrace International's FIRETRACE® detection and suppression technology.

The terminal is due for completion in time for the Commonwealth Games later this year, by which time more than 900 FIRETRACE systems will have been installed.



The FIRETRACE solution – of which there are now more than 150,000 successfully completed installations around the world – was judged by the airport's operator, Delhi International Airport Limited, to provide the essential detection and suppression characteristics that would ensure the effective protection of the cabinets. The airport is already India's busiest in terms of the number of daily flights, and the second-busiest in terms of passenger volume. When completed, Terminal Three will handle an additional 37 million passengers a year.

The airport management recognised that the damage or destruction of these electrical enclosures have the potential to put the airport's vital building management systems out of operation with a major detrimental impact on passenger safety or service levels. FIRETRACE was considered to be the only way to ensure that this could not occur by providing dedicated fast-response detection, fast agent discharge, and fast and effective suppression. It is a "self-seeking" automatic fire suppression system that provides around-the-clock protection; a stand-alone solution that is entirely self-contained and does not require an external power source.

The UL [Underwriters Laboratories] listed, FM [Factory Mutual] approved and CE [Conformité Européene or European Conformity] marked system comprises an extinguishing agent cylinder that is attached to proprietary Firetrace Detection Tubing via a custom-engineered valve. This small-bore polymer tubing is a linear pneumatic heat and flame detector that was specially developed to deliver the desired temperature-sensitive detection and delivery characteristics. It detects along the entire length of the tube, so the FIRETRACE tubing quickly detects a fire at its source, ruptures and automatically releases the suppression agent, extinguishing the fire precisely where it starts and before it has had time to take hold.

However, electrical cabinets often comprise small sealed compartments and contain a host of components such as bus bars and cable alleys. These challenges are overcome by the flexibility of the Firetrace Detection Tube that allows it to be threaded around and throughout the airport cabinets' tightly-packed maze of compartments and components. It enters and leaves each compartment through the integral cable glands, so FIRETRACE does not compromise the IP [Ingress Protection] rating of the cabinet.

Delhi International Airport uses the Firetrace Direct System, which is the most commonly used option for protecting electrical cabinets. This system utilises the FIRETRACE tube as both the detection device and the suppressant delivery system. When the tubing detects a fire anywhere along its length it ruptures, forming an effective spray nozzle that automatically releases the entire contents of the cylinder.

Negotiations for the Delhi Airport contract were overseen by Kuldeep Chauhan of Colimanor Enterprises LLP, Firetrace International's principle trading partner for India, who worked closely with SVS Buildwell, the master distributor for India.

ISO 9001:2008 registered Firetrace International is headquartered in Scottsdale, Arizona USA with its EMEA offices in Gatwick in the UK, which can be contacted on +44 (0) 1293 780390. The company's website is at www.firetrace.com. Genuine FIRETRACE is available only via Firetrace International's global network of authorised distributors. These trading partners are skilled in hazard analysis, agent and system selection, installation, commissioning and support, and use only genuine FIRETRACE components. Details of these authorised distributors are available by contacting Firetrace International at info@firetrace.com.

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