

Multi- Level Hochiki Fire Detection for Tripoli's Newest 5-Star Hotel

The stunning multi-storied towers of the new five-star, 300 room Corinthia Bab Africa Hotel, overlooking the historic Medina in the heart of Tripoli, are protected at every level by Hochiki's analogue addressable smoke and heat sensors, covering public spaces, plant and staff areas.

Devices

Hochiki's ESP analogue addressable ALG-E photoelectric smoke sensors, specified for their low-profile good looks, are located both below false ceilings as well as above them, where the plenum ceiling cavity space is significant. Hochiki ATG-E heat sensors are also utilised in areas deemed not suitable for smoke detection.

In addition the high ceilings within the banquet hall, reception and main restaurant areas required a different approach. Hochiki SRA-ET beam detectors are installed in these areas; integrated onto the ESP system via Hochiki Zone Monitors. The SRA-ET unit comprises of a reflective type beam detector with a built-in emitter and receiver in the same unit reflected to a maximum of 30 m range

Other essential devices such as addressable sounders and break glass call points are all connected to the same loops as the sensors. All sounders are connected directly onto the loop as CHQ-BS sounder bases which are fully programmable directly from the loop.

System

This multi-level intelligent system of designated zones, each served by independent networked fire alarm panels, interfaces via ESP (Enhanced System Protocol), Hochiki's platform designed to eliminate false alarms from data corruption.

The alarm system is also interfaced with a number of other safety systems to monitor and control various items of plant whose operation is critical in the case of a fire condition. These include passenger and service lifts, air handling units, fire dampers, fire doors, fire curtains, disabled toilets, a gas detection system, generators and boiler-room system.

System components (A total of 2296 Addr. + 3593 Sub Addr.)

- 5 Syncro 4 Loop Control Panels (All networked)
- 1 Syncro 2 Loop Control Panel (Networked)
- 1665 ALG-E Smoke Detectors
- 40 ATG-E Heat Detectors
- 45 SLR-E3 Conventional Smoke Detectors
- 22 DCD-2E Conventional Heat Detectors
- 9 SRA-ET Reflective Beam Detectors
- 179 MCP-E Manual Call Points
- 454 CHQ-BS Addressable Base Sounders
- 167 CHQ-S Addressable Sounders
- 37 CHQ-R Modules 1-input, 2-output
- 198 CHQ-SI Modules 1-input, 1-output
- 6 CHQ-MZ Mini Zone Modules 1-conventional zone
- 4 CHQ-Z Zone Modules 2-conventional zones

Pic 1

Pic 2



Fire & Security Engineering