

Metro Systems & Transportation Facilities

SPECIAL HAZARD APPLICATION

The general environment of a rapid transit system lends itself to many peculiar and difficult fire safety problems. Typical underground stations are multilevel structures with a labyrinth of passages, shafts, and tunnels. To properly protect these critical infrastructure locations, it is important to identify potential fire hazards within these facilities such as ticketing areas, escalators, electrical rooms, storage areas, and platforms.

Protectowire linear heat detectors are ideally suited for these transit stations challenges. Protectowire linear heat detectors offer continuous detection anywhere along their length as opposed to conventional spot type detectors. To properly apply linear heat detection to these facilities it is important to determine the length of detection coverage required, understand the environmental conditions, and know how to integrate the linear heat detector into a facility's fire alarm control panel. Linear heat detectors are an ideal detection technology as they are not negatively impacted by the dirt, grit, or other harsh conditions often found in these critical facilities.

The linear heat detector is often integrated into the building or facility fire protection system. The detector is typically supervised by a Protectowire interface module, an addressable module, or a conventional IDC. Emergency procedures, such as ventilation, are often controlled by the facility fire protection system.

Regular testing and maintenance ensure the system is functioning as designed. Perform periodic inspections and/or functional tests as required by international, national, or local regulations.

Implementing linear heat detection systems in metro stations and transportation facilities can help mitigate fire risks, improve early detection capabilities, and enhance overall safety for passengers, operators, and infrastructure. Employing a system that protects against fire hazards, contributes to a safer transportation environment.

