



Applications: Road Tunnels

Ingress of water into road tunnels can be dangerous at best and deadly at worst. Not only can it make for difficult driving conditions but potentially water can disable signalling and control equipment within the tunnel.

Ingress is particularly likely where tunnels have been bored through porous rocks. This is particularly prevalent in the European Alps amongst others.

Although precautions can be taken to avoid this ingress, early detection is difficult but essential. Signaline Water offers a versatile and flexible solution.



The tunnel control equipment and electrical power distribution cabinets can be monitored by using short lengths of Signaline WD Water Detection Cable. Each length will have its own Signaline WDM-KM Control Module which has volt free Water Detected and Fault contacts allowing the device to be integrated into the tunnel management systems, start pumps or other similar equipment.

Flash flooding can also be detected using Signaline WD Water Detection Cable by mounting the cable on the tunnel wall just above road level. The controller can then be interfaced with pumping systems and also to traffic control equipment to advise motorists.

Up to 1000m of Signaline WD Water Detection Cable can be monitored by a single Signaline WDM-KM Control Module making Signaline Water a highly cost efficient form of water detection.

A Signaline WD Water Detection System provides the end user with great flexibility. As an alternative to sending water detected and fault signals to the tunnel management system, up to eight Signaline WDM-KM Control Module and associated detection cable can be monitored by a Signaline CB200W Control Panel. The control panel will automatically sound alarms and provide signal outputs.

Tunnels also pose many difficulties for fire protection. Signaline Heat Sensing Cables may be the perfect solution. Please review www.signaline.com/heat for further details.



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