

USING SIGNALINE LINEAR HEAT DETECTION IN FLOATING AND FIXED ROOFTANKS

Signaline Linear Heat Detection is ideally suited to monitor floating and fixed tanks.

The storage of flammable fuels, chemicals and gasses presents unique challenges for fire detection systems.

By their nature the stored substances are highly flammable and could lead to devastating consequences in a fire situation. Therefore fast and efficient fire detection is crucial.

Furthermore, storage tanks are also classified as hazardous areas and therefore require increased care and appropriately approved products to be used.

Signaline Linear Heat Detectors are considered simple apparatus by the ATEX, IECEx and UL regulations on hazardous areas. This means the product is safe to be used within the hazardous areas.

However, the cable should still be protected with an approved galvanic isolator such as the MTL5561 or Pepperl and Fuchs KFD0-CS-EX1.54 to ensure no electrical fault from the safe area could cause a power surge or similar along the linear heat detector.



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Signaline can be laid around the rim of the floating roof or around the top of the fixed roof on the rim seal. As well as being used around bund walls, flanges and valves for extra protection.

In the instance of floating roofs, as the tank empties the roof level falls. This provides a further challenge of connecting the fixed element the tank roof gantry to the moving element of the floating tank roof.

There are two methods of connecting Signaline Linear Heat Detection between the fixed gantry and the top of the tank; Signaline Retractable cables and Signaline Auto Collector.

Signaline Retractable Cables are custom built and manufactured specifically for floating roof type storage tanks. As the roof drops lower, the spring like cable extends and as the roof rises the cable retracts into a closed spring coil.

Alternative the Signaline Auto Cable collector is another solution. This is a turnbuckle solution which automatically unreels the connecting cable as the roof level falls and re-reels as the roof rises. It is a mechanical device and does not require a power supply.

