

AN100 SPARK DETECTION SYSTEM

FEATURE RICH - VALUE PRICED

(04-12) AN100 Spark Detection System



A Spark Detection System is used in pneumatic particle transport systems where there is a potential for fires or explosions. These material transport systems include sawdust, cellulosic fibers, chemical dusts, food ingredients, pharmaceuticals or other combustible materials. They are also employed on welding fume exhaust systems where smoldering particles or hot material can be transported along with the exhaust fumes.

The AN100 Spark Detection and Extinguishing System is a low cost, full featured single zone system capable of protecting a dust collector with a single duct at the back end of the dust collection network. The main duct may up to 1200 mm or 48 inches. Multiple zone systems are also available from Hansentek.

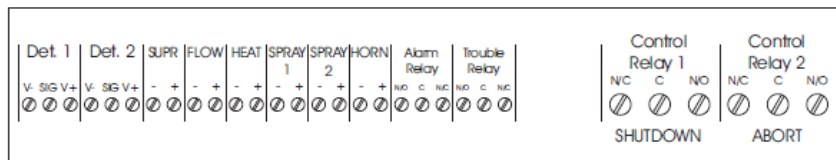
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EASE OF INSTALLATION

The AN100 is normally self installed by plant personnel or local trades people. The basic configuration requires an AC mains input to the control panel as well as cables from the control panel to the Spray Assembly, the Detectors and the Horn. It also requires a supply of water at 3.5 to 7 bars or 50 to 100 PSI and capable of supplying 74 liters or 19.5 US gallons per minute.

The detectors come with a waterproof connector pre-wired onto a cable stub. This requires only splicing the cable and not the delicate wiring of the connector itself.



Facilities are also provided for the following features, each of which requires an additional wire pair: baghouse heat detection, water flow monitoring, process supervision, return air abort, conveyance shutdown, baghouse deluge, remote trouble indication and remote alarm indication.

SENSITIVITY TESTING

Two detectors mounted opposite each other can manually or automatically perform a functional sensitivity test under actual operating conditions – across the entire width of the duct and through both lenses.

A trouble condition is generated if a detector fails the self test – telling maintenance personnel that the lenses need cleaning.