

Press Release

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Watching the Flames

Dräger Flame 5000 video flame detector at Achema

Dräger presents a device for optical fire detection at the 2009 Achema Exhibition, to be held in Frankfurt, Germany: the Dräger Flame 5000 video flame detector, a device which is capable of processing its own video signal via a signal algorithm. This algorithm interprets – in a similar way as the human eye – the movements and contours of flames, thus detecting the typical characteristics of a fire. Fault alarms are all but non-existent.

Whereas traditional flame detectors operate using IR/UV technology, the Flame 5000 uses video technology. Equipped with a lense, the detector "observes" its surroundings and as soon as the detector spots something unusual, the signal algorithm integrated in the device will analyze the corresponding area – giving alarm if characteristic flame movements and contours are detected.

Intelligent technology to prevent fault alarms

This technology eliminates various traditional disturbances, such as lightning, light reflections or thermal radiation, which can trigger fault alarms when traditional sensors are used. In addition, the detector automatically performs an optical verification: It detects contamination or other interferences on the viewing window. Such disturbances will be displayed directly on the device, which sends a signal to the fire or gas detection system via a relay circuit.

Quick overview due to video image

The Dräger Flame 5000 operates autonomously. Additional software to process the video signal is not required as the device comes with it pre-installed. Via a PAL or NTSC interface, the input video signal can also be displayed live on a monitor. This allows the user to get their own picture of the situation enabling them to react more quickly in the case of an alarm so that dangerous situations can be avoided.

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Multiple use, around the world

The Dräger Flame 5000 can detect a fire covering an area of one square meter and a power output of approx. 10 kW at a distance of up to 44 meters. This means the video flame detector can monitor an area about twice as large as traditional IV/UR sensors. The detector is available both in a stainless steel or an aluminum casing. Thanks to its robust design, the device is also approved for use in areas where an explosive risk is present. Furthermore, the video technology enables to monitoring in enclosed spaces with extreme temperatures: The detector can monitor such areas through an acrylic glass panel without being exposed to these extraordinary conditions.

The Dräger Flame 5000 can be used either as an individual device or integrated into a control system or fire detection system. For this, the detector is equipped with a 0-20 mA output and relay outputs. For analytic purposes, an integrated memory card allows the detector to record algorithm sequences before and after each alarm.

Dräger. Technology for Life®

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