

Integrated Press Extinguishment Systems
Offer Protection for Hot Presses



GreCon®

Press Extinguishment Systems Protect Your Production

In the production processes of wood based panels, different inflammable materials, such as chips, fibres, glue, paraffin or even oil, represent danger sources that can only be controlled by additional physical protection measures, such as fine water spray systems.

A modern system for the detection of press fires has to be capable of detecting fires in the main danger areas early and reliably to immediately activate extinguishment systems there, but also for the entire press. The fires occurring during running production have to be fought directly in the place of detection. As a fire might spread quickly within the press, an automatic extinguishing process is to be preferred to a manual fire fighting facility. The GreCon press extinguishment offers both alternatives.

DuoStep 26

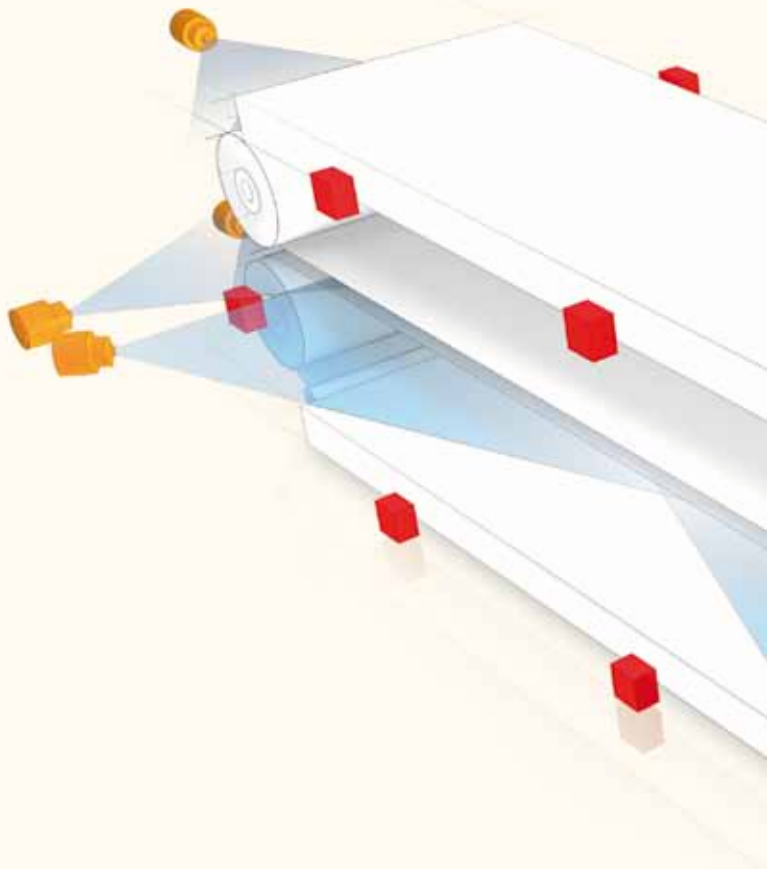
Installations made to date incorporating the GreCon fire detection principle DuoStep 26 have proven our claims: availability of early information to the operator allows both manual and qualified intervention. In addition, automatic triggering of the extinguishing system by the combined detection of two different flame spectra is particularly secure against fraudulent alarms. The visual distance of the well-proven flame detectors exceeds 25 meters at a viewing angle of 90 degrees. So fewer detectors need to be installed at the press which also reduces long-term maintenance expenditure.

Eco-Clean

A very energy-efficient cleaning device – without using compressed air – avoids accumulation of oil and steam on the detector's optical lens. Compared with cost-intensive compressed air, the electrical connection voltage is only approx. 40 W.

Integrated Fire Protection Concept

Through the integration of the extinguishing events, registered by the spark extinguishing system, in the total press protection concept, necessary extinguishing measures can be taken quickly. The integration of spark detection in the exhaust pipes of the press inlet and/or outlet makes an early fire detection possible, as it has not yet been realised on the market. The operators of hot presses with spark detection in the exhaust pipes report that sparks are detected only minutes before the fire detection is activated. Fire events are smaller resulting in the use of lower quanti-



ties of extinguishing water. Less extinguishing water means shorter standstill times after a successful extinguishment. With the GreCon central fire alarm system - which is approved by VdS - with integrated extinguishment function it is possible to activate press extinguishing measures manually or automatically.

Instantaneous Extinguishment through the Use of UV/IR Sensors

The UV/IR sensors offer high security against fraudulent alarms due to the evaluation of two different spectral regions for flame detection. Flashlight with red-eye flash mode or trails of steam as they might arise when opening the press, for example, do not trigger an alarm. Due to the

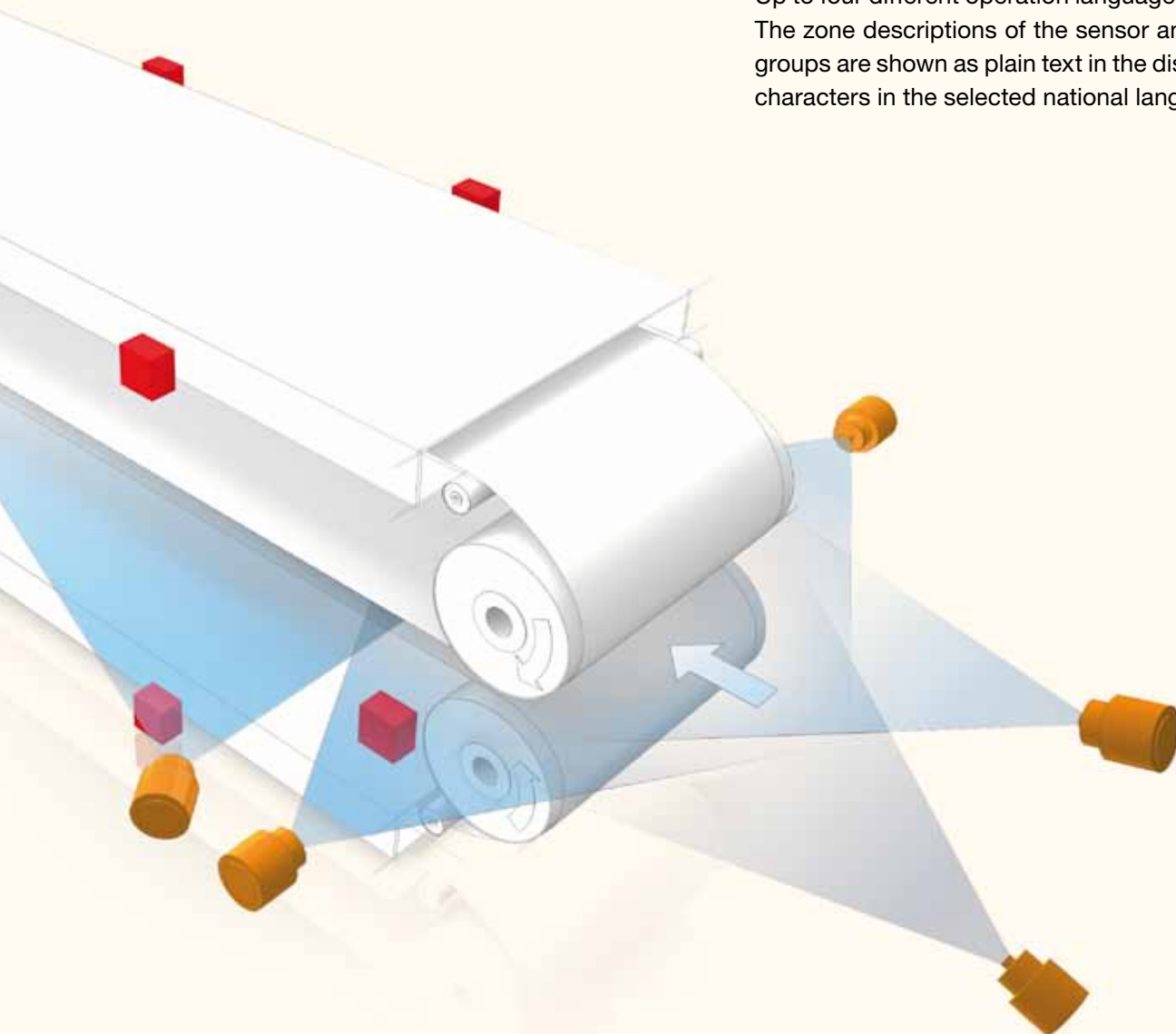
high security against fraudulent alarms, all extinguishing measures are taken without delay. Thanks to the high-quality UV/IR sensors, valuable time is saved in case of an alarm, and a fire extinguished in an early stage.

When opening inspection flaps, sensor groups are automatically disabled to avoid false alarms. An inspection flap monitoring by means of mechanical switches can be connected directly to the central fire alarm system.

If inspection exceeds the time that is pre-determined in the central fire alarm system, information is given to the operator.

The Central Fire Alarm System Displays in the Language of the Customer

Up to four different operation languages can be selected. The zone descriptions of the sensor and extinguishment groups are shown as plain text in the display with up to 40 characters in the selected national language.





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