



Fire and Explosion Protection in Recycling Plants

Due to the growing importance of recycling, the requirements of the plants are also increasing. Acceptance agreements demand a high availability of the production facilities. To ensure a high production availability, facilities that are at risk have to be protected against fire and explosions. Risks of fire are lurking in many sections of the recycling process. All processes in which material is comminuted, sorted, transported or stored are at risk. A GreCon spark detection and extinguishment system significantly increases the safety and protection of the production facilities. It detects dangerous ignition sources in time and automatically extinguishes them without interrupting production – and has done so successfully for more than 35 years.

THE RIGHT SOLUTION

- ✓ a fast, reliable spark extinguishing system which is especially adapted to your recycling and production
- ✓ the detection of sparks and glowing particles in the areas at risk
- ✓ protection without interrupting production

DANGER ZONES AND RISKS

Shredder

- ✓ Material accumulation
- ✓ Overload
- ✓ Friction
- ✓ Glowing embers

Exhaust air

- ✓ Spark transportation to filters
- ✓ Sparks created by fans

Cyklone

- ✓ Fire load by separated solids
- ✓ Dangerous dust-air ratio

Filters

- ✓ Fire load by separated solids
- ✓ Dangerous dust-air ratio

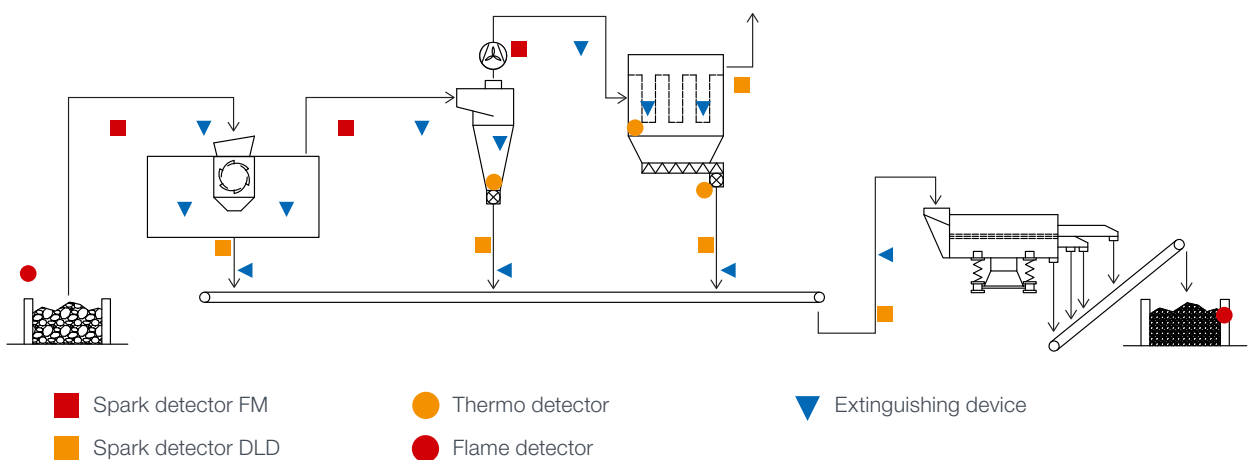
Sorting plants

- ✓ Friction between material and plant components
- ✓ Glowing embers
- ✓ Spark flight

Storage space

- ✓ Glowing embers
- ✓ Self-ignition

DIAGRAM OF PROTECTION CONCEPT



The number of detectors depends on the requirements of the plant and the situation on site.