



SOLID SDE

Fire detection and control panel for spark extinguishing systems

*Cool down.
Fire Protection by*

MINIMAX

Product & application

The SOLID Spark Detection and Extinguishing (SDE) is preconfigured for the control and functional monitoring of spark extinguishing systems in pneumatic suction and conveyor systems such as drop shafts, for example in the timber, textile, paint and food industries (spark extinguishing, 1 extinguishing zone). It can be used in a tough industrial environment without any problems thanks to its extremely robust dust and jet-proof housing (IP66) in polycarbonate. All setting can be quickly and easily made, making commissioning simpler. During operation, status LEDs provide a clear indication of status and function keys intuitive operation. The emergency power supply ensures continuous availability.

Besides the SOLID SDE spark extinguishing control panel, a spark extinguishing system consists of spark detectors and a valve unit. If the spark detectors have detected potential sources of ignition such as sparks or hot particles in the material being conveyed, they send a signal to the SOLID SDE. It evaluates the signal within milliseconds and immediately activates the extinguishing unit's solenoid valve. Water is released through patented, self-closing nozzles. The glowing particles fly into the water mist formed by the nozzle and are extinguished. Immediately afterwards, the solenoid valve closes automatically. Simultaneously the SOLID SDE triggers notification devices.

An integrated configurable spark counter identifies the number of potential sources of ignition detected within a defined period. When a certain number is exceeded the SOLID SDE can automatically turn off machinery: Causes can be resolved and further sparking, as well as inundation of the protected equipment, prevented. The control panel continually monitors the connected spark detectors, notification devices and valves for their availability and functioning, as well as all cableconnectors separately for line break and short circuit.

Main features

- ▶ Signal evaluation from spark detectors and rapid flame detectors within milliseconds
- ▶ Immediate activation of the spark extinguishing system's extinguishing unit
- ▶ Integrated, configurable spark counter to turn off machinery
- ▶ Clear status identification and intuitive operation
- ▶ Simple commissioning – preconfigured for use in spark extinguishing systems