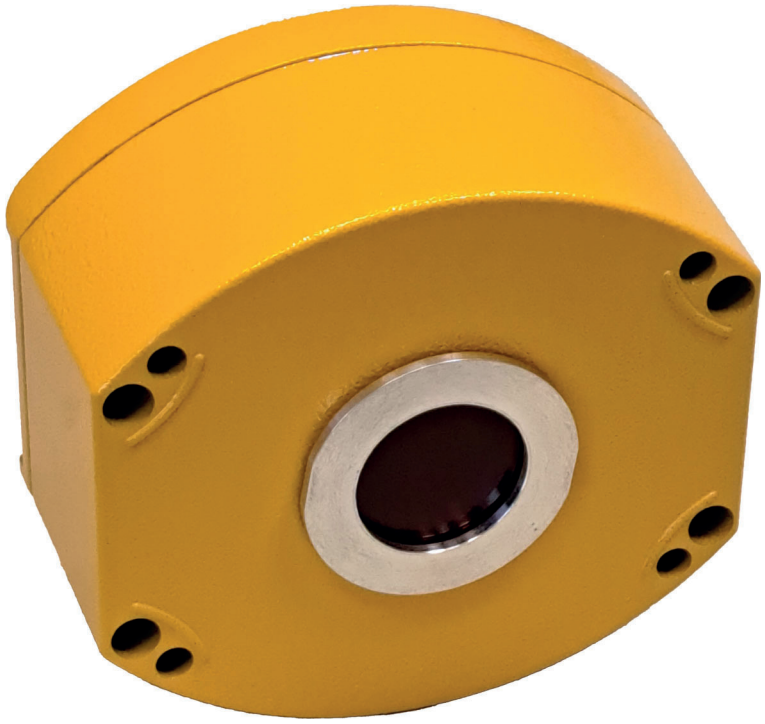
EDS®
ELECTRONIC DETECTION SYSTEMS

SparkView

Spark Detector

100% MADE IN ITALY



CE

Technical features

The EDS SparkView spark detector is an electronic device designed for detecting sparks in pipelines or conduits used for transporting various combustible processing waste materials to a collection silo.
During the transportation phase, it is possible for sparks generated upstream during processing to be mixed with the material being transported.
If these sparks are not detected and neutralized rapidly, once they reach the interior of the silo, they can cause fires and even explosions. Therefore, precise and timely detection of sparks can be utilized to prevent significant damage and danger to people and property, consequently enhancing the safety level of the facility.
The SparkView detector is capable of detecting sparks passing through its field of view, even if they are traveling at high speeds (up to 100 km/h).
The detector is equipped with a special optical head sensitive to infrared radiation with a field of view exceeding 90 degrees (solid angle) and an appropriate electronic circuit connected, which amplifies and processes the signal and microprocessor control to process the signal.
When the SparkView detector intercepts a spark, it activates a suitable output relay that can be used to trigger appropriate audible and visual alarms. Additionally, a special water jet system can be activated for extinguishing the detected spark.
For this function, it is suggested to use our control units like SCP04, which provides great flexibility of use, and are intended to activate the extinguishing quickly.
In the case of large pipelines (greater than 0.5 m), to avoid unprotected areas, two detectors installed diametrically opposed should be used.
The use of two opposing detectors may be necessary even if the transport pipeline has a shape different from cylindrical, such as square, rectangular, etc., to avoid dead zones and areas outside the optical field of view of the detector.
To achieve maximum safety, two detectors can be installed along the pipeline with two extinguishing stations. In this case, if using an automatic water jet extinguishing system, it is also possible to monitor the successful extinguishing of the spark.
The detector housing is made of lightweight alloy casting with IP67 protection, therefore the internal electronics are protected from water, dust, impacts, and even corrosive atmospheric agents, allowing the detector to be used outdoors for long periods without any problems.
Maintenance is very simple and generally does not require frequent interventions.
Fixing on the pipe is performed using **the metal brackets, black gasket and related screws and bolts included in the supply.**

SparkView

Technical Data

Power supply:	11-30 Vdc
Consumption:	5 mA (non-alarm) - 20 mA (alarm activated)
Optical viewing angle:	90°
Internal electronics:	microprocessor controlled
Maximum detection distance:	approx. 50 cm
Temperature:	-25 +55°C
Regolation of relay output activation time:	2/5/10 sec or latch
Alarm indicators:	alarm led - fault led
Alarm Output relay:	max switching 220Vdc/ 1A - energized/denergized switch
Fault output	open collector
Serial output	RS485 (on request)
Sensitivity	adjustable

Mechanical Data

Enclosure:	Light alloy fusion EN AC-44300 (DIN EN-1706)
Protection index:	IP67 EN-60529
Dimensions:	139x150x80 mm
Weight:	840 g

Certification

Execution:	IP68
Certification:	CE

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