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ISO 9001
CONTROL LOGIC S.r.l.

94/9/EC ATEX DIRECTIVE STATEMENT OF CONFORMITY RIV-601P/S SPARK DETECTOR

CE Ex II 3D Ex tD A22 IP66 T85°C

Control Logic S.r.l. Via Ennio 25 - 20137 Milano Italia declares that RIV-601P/S Spark Detector complies with the essential requirements of 94/9/EC ATEX Directive concerning equipment and protective system intended for use in potentially explosive atmospheres in reference to the following harmonized standards: EN 60079-0: 2009; EN 60079-31: 2009.
Milano, November 4, 2010

INSTRUCTIONS FOR INSTALLATION, USE AND MAINTENANCE OF SPARK DETECTOR MODEL RIV-601P/S

CE Ex II 3D Ex tD A22 IP66 T85°C

The following instructions for RIV-601P/S Spark Detector are a supplement to the instruction sheet FO1A5 supplied with each Spark Detector.
Always use both instruction sheets and application manual for installation, use and maintenance of RIV-601P/S Spark Detector.

General specifications
Spark Detector suitable for use in dusty explosive atmospheres (zone 22) according to 94/9/EC ATEX Directive.
The product complies with the essential requirements of Atex Directive, since it conforms to the EN 60079-0: 2009; EN 60079-31: 2009 European standards. It also complies with the essential requirements of 2004/108/EC EMC Directive and subsequent modifications.

Electrical connections
7-way terminal block plus 1 earth terminal. Equipped with M25 cable fitting (for 13-18mm diameter cable conduit).

Technical specifications
100% duty cycle. Maximum surface temperature 85°C. Ambient temperature –20 +60°C. IP66 protection grade (EN 60529) with M25 cable fitting, supplied assembled.
DC voltage: 24V (±15%) filtered.
RIV-601P/S Spark Detector must be powered or by our control panels or by another power supply which has an automatic current and power overload protection, so that the enclosure overheating will not exceed by more than 10°C the ambient temperature.

CAUTION: The manufacturer assumes no responsibility for any damage or liability caused by improper use of the RIV-601P/S Spark Detector if operated outside the specifications stated in the data sheet and application manual or not in accordance with the manufacturers installation, use and maintenance instructions.

Wiring
The wiring must conform to local and national rules and regulations for equipment used in dangerous environments.
Use wires appropriate for environmental temperature and power required.
Check that the value of the voltage supplied to the Spark Detector is 24Vdc.
If our control panels are not used, the 24Vdc power supply circuit must be protected by a fuse or current limiting device so as not to exceed 2A.
The Spark Detector must be connected to earth according to local norms.
The wiring must be done according to the electrical drawings detailed in the application manual.
Use wires with 0.5 ÷ 1,5 sq. mm section in order to avoid problems with terminal connections.
Avoid excessive cable traction between terminals and the cable gland.
Ensure that the cable gland seals perfectly around the cable (or cable conduit).
In order to ensure IP66 protection class, the cover must be tightly closed by the four screws.
The recommended closing torque is 1 ÷ 1,5Nm.

Maintenance
Proper maintenance ensures reliability and performance of the product over time.
During maintenance activities pay special attention to cleanliness of the optical window.
Periodically (once per day or per week according to the plant's needs) check the correct working of the internal test.