

Press release

Modular plug connectors: Flexible, quick connection in hazardous areas



Waldenburg – The explosion protection expert R. STAHL has launched a new generation of plug connectors with the Ex e and Ex d types of protection for quick connection of explosion-protected electrical equipment. As a solution that is particularly easy to mount and maintain, the modularly designed miniCON series offers a wide range of options, which can be designed for in-line connection of portable control systems, electrical systems, moving machines, and drives, as well as camera and HMI systems, while requiring very few different parts. The 8-pole plugs and couplings, which are designed for cable cross-sections from 0.25 mm² to 2.5 mm², guarantee a reliable power supply in voltage ranges for signal levels (24 V/0–4 mA) and for three-phase power supplies up to 500 V AC/16 A, as well as for connection to Profinet and all common bus systems. Electrical assemblies can be delivered fully prefabricated, wired and checked, enabling them to be commissioned at the operating location with minimum installation effort. The plug-and-play connection with patented snap lock can be connected and disconnected by a single person without needing any hot work permits, even under load – saving time and money. Its hot-swap suitability significantly reduces downtime during maintenance work or when replacing devices and simplifies handling, especially at installation locations with particularly harsh or difficult environmental



conditions. It also enables single-handed operation with work gloves. Users can choose between three different coding variants for adaptation to the different voltage levels. The plugs and couplings can be remounted to adjust the function, in order to reduce the mounting depth, for instance. The robust, long-lasting miniCON plug connectors with IP 66/68 degree of protection are available in plastic or stainless steel versions and are designed for an extensive temperature range from -60 to +75 °C. They have been awarded ATEX and IECEx certifications for Zone 1 and 21, as well as cULus approval for Class I, Div. 2 in the metal version, which will be implemented by mid-2022. As a future-proof solution, they support digital data communication and the implementation of intelligently networked maintenance concepts. Available accessories include a range of different adapters, cable glands in Ex e and Ex i versions, and internal strain relief.



About R. STAHL

For more than 90 years, R. STAHL has been setting trends in the field of safety solutions for hazardous areas. The Waldenburg-based company is one of the world's leading suppliers of explosion-protected components and systems. Its portfolio includes products for automation, control and distribution, installation, operation and monitoring, lighting, signaling and alerting. Customer-specific explosion-protected system solutions are fast becoming one of R. STAHL's specialities. The perfect combination of compatible products can be enhanced with an extensive range of services, including consultation, project and technical engineering, and training as required. The innumerable technological innovations coupled with a growing list of patents to its name bear testament to the company's product development expertise. With international certification and approvals, R. STAHL's products can be used all over the world.