An innovative and full product range for your application

The fieldbus technology has become well-established in recent years alongside with conventional installations. Most new systems as well as modernizations apply solutions on the basis of Profinet or Fieldbus Foundation technology. In this area fieldbus barriers and High Power Trunk concept have replaced the FISCO installation as far as possible.

R. STAHL offers the full product range for supply, installation and diagnostics of fieldbus segments in Zone 1 and Zone 2 including the required enclosure and system solutions.

Fieldbus Power Supply System

- High performance fieldbus power supply with up to 28 V & 500 mA for up to 8 FF H1 segments
- Simplex or redundant supply and boost mode with up to 1 A
- Installation on DIN rail or on host-specific bus Carriers
- Switchable terminator and status LEDs
- Integrated advanced physical layer diagnostics in all fieldbus power supplies!

Advanced Diagnostics, Pro-active Maintenance and Online Access

- Unique: Physical layer diagnostics of the fieldbus segments integrated into the power supply – high efficiency & availability of solutions
- Diagnostics of each individual fieldbus segment: current / power supply; signal level, noise, jitter and unbalance of the segment and individual fieldbus devices
- Frontside diagnostics interface for serial PC connection
- Simple, intuitive messaging by means of traffic-light LEDs: good (green), warning (yellow), error (red)
- Easy-to-use, adjustable warning levels with integrated relay contact for pro-active maintenance of fieldbus installations
- Online access to diagnostics data over H1 network with Diagnosis Communication Module (DCM)
- Easy integration into control systems and engineering workstations via EDD - NE107 and FF-912 compliant
Fieldbus Couplers For Zone 1 And Zone 2

- Cost efficient fieldbus barriers for Zone 1 and also Zone 2 optimized to connect up to 8 Zone 1 Ex i / FISCO fieldbus devices
- Compact spur protector for 4, 8 or 12 Ex nL / ic fieldbus devices
- All available with detachable terminals for even easier installation and maintenance
- Integrated power management to minimize bus current under any operating conditions (system start, short-circuits, etc.)
- Digital I/O coupler to connect up to 8 Ex i discrete inputs and 4 Ex i discrete outputs to the FF H1- extensive function block support: DI, DO, M DI, M DO, AI (frequencies), CI (counters) as well as Logic Transducer Block
- Customized solutions: A very compact solution for 16 FISCO fieldbus devices in a stainless-steel enclosure 380 x 380 mm with integrated trunk maintenance switch-off