

AI931S (AI4H-Ex)

ABB Ability™ System 800xA® hardware selector



The remote S900 I/O system can be installed in non-hazardous areas or directly in Zone 1 or Zone 2 hazardous area depending on the selected system variant. S900 I/O communicates with the control system level using the PROFIBUS DP standard. The I/O system can be installed directly in the field, therefore the costs for marshalling and wiring are reduced.

The system is sturdy, error-tolerant and easy to service. Integrated disconnection mechanisms allow replacement during operation, meaning that there is no need to interrupt the primary voltage in order to exchange the power supply units.

S900 I/O type S. For installation in hazardous area Zone 1. For connecting intrinsically safe field devices installed in Zone 2, Zone 1 or Zone 0.

AI931S Analog Input (AI4H-Ex), passive inputs for 0/4...20 mA.

Features and benefits

- ATEX Certification for installation in Zone 1
- Redundancy (Power and Communication)
- Hot Configuration in Run
- Hot Swap functionality
- Extended Diagnostic
- Excellent configuration and diagnostics via FDT/DTM
- G3 – coating for all components
- Simplified maintenance with auto-diagnostics
- Passive inputs for 0/4...20 mA
- Short and break detection
- Electrical isolation between input / bus and input / power
- Common return for all inputs
- 4 channels
- Transmission of HART frames via the fieldbus
- Cyclic HART variables

| General info | |
|--------------------|-----------------|
| Article number | 3KDE175511L9310 |
| Type | Analog Input |
| Number of channels | 4 |
| Signal type | 4...20 mA |
| HART | Yes |
| SOE | N/A |
| Redundancy | No |
| Intrinsic safety | Yes |
| Mechanics | S900 |

| Environment and certification | |
|---------------------------------|---|
| CE mark | Yes |
| Hazardous Location | ATEX Zone 1 |
| Corrosive atmosphere ISA-S71.04 | G3 |
| Climatic operating conditions | Relative humidity max. 93 % +/- 3 % at 40°C |
| Max ambient temperature | -20 °C...60 °C |
| RoHS compliance | DIRECTIVE/2011/65/EU (EN 50581:2012) |
| WEEE compliance | DIRECTIVE/2012/19/EU |
| WEEE category | Small Equipment (No External Dimension More Than 50 cm) |

| Dimensions | |
|------------|---------------------|
| Width | 20 mm (0.79 in.) |
| Depth | 104 mm (4.09 in.) |
| Height | 104 mm (4.09 in.) |
| Weight | 0.13 kg (0.28 lbs.) |

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