ABB ABB Series Service Manual

AI910S

1. Description

3KDE175511L9100

3. Product Information

3KDE175511L9100 | AI910S ABB Analog Input Module

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.

AI910S Analog Input (AI4-Ex), input and power supply for 4...20 mA loop powered 2-wire transmitters.

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

Power supply for 4...20 mA loop powered 2-wire transmitters

Short and break detection

Electrical isolation between input / bus and input / power

Common return for all inputs

4 channels

General info

Article number 3KDE175511L9100

Type Analog Input

Number of channels 4

Signal type 4...20 mA

HART No

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 0.14 kg (0.31 lbs.)