ABB ABB Series Service Manual

AI950N

1. Description

ABB AI950N 3KDE175523L9500 Temperature Input Module

3. Product Information

ABB AI950N 3KDE175523L9500 Temperature 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 N. For installation in safe (= non-hazardous) area.

AI950N Temperature Input (TI4), supporting Pt100, Pt1000 and Ni100 in 2-/3-/4-technology. Thermocouples B, E, J, K, L, N, R, S, T, U, mV. Isolated inputs channel by channel.

Features and benefits

- Redundancy (Power and Communication)
- Hot Configuration in Run
- Hot Swap functionallity
- Extended Diagnostic
- Excellent configuration and diagnostics via FDT/DTM
- G3 – coating for all components
- Simplified maintenance with auto-diagnostics
- Pt 100, Pt 1000, Ni 100, 0...3kOhms in 2/3/4 wire technique
- Thermocouple Type B, E, J, K, L, N, R, S, T, U, mV
- Internal or external cold junction compensation
- Short and break detection
- Electrical isolation between input / bus and input / power
- Electrical isolation channel to channel
- 4 channels

General info

Article number 3KDE175523L9500

Type Analog Input

Number of channels 4

HART Yes

SOE N/A

Redundancy No

Intrinsic safety No

Mechanics S900

Environment and certification

CE mark Yes

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 (0.29 lbs.)