ABB ABB Series Service Manual

CI920AN

1. Description

ABB CI920AN 3BDH000692R1 Communication interface

3. Product Information

ABB CI920AN 3BDH000692R1 Communication interface

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. CI920AN Communication Interface V 2.1 (CIPBA), for Fieldbus protocol PROFIBUS DP-V1 (IEC 61158). Use only CI920AN with the same firmware for redundancy for PROFIBUS DP-V1 (observe Release Notes).

Features and benefits

• 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

• Fieldbus protocol PROFIBUS DP-V1 (IEC 61158)

• Coupling of the internal CAN bus to external PROFIBUS

• HART over PROFIBUS DP-V1

• Line or media redundancy via two coupling modules

• Electrical isolation between fieldbus, power

• Diagnosis, configuration and parameterization via PROFIBUS

General info

Article number 3BDH000692R1

Signal type Communication interface

HART Yes

SOE N/A

Redundancy Yes

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.)