ABB ABB Series Service Manual

CI920AS

1. Description

ABB CI920AS 3BDH000690R1

3. Product Information

ABB CI920AS 3BDH000690R1

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.

CI920AS Communication Interface V 2.1 (CIPBA-Ex), for Fieldbus protocol PROFIBUS DP-V1 (IEC 61158). Use only CI920AS with the same firmware for redundancy for PROFIBUS DP-V1 (observe Release Notes).

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

• Fieldbus protocol PROFIBUS DP-V1 (IEC 61158)

• Coupling of the internal CAN bus to external PROFIBUS DP-V1 (IEC 61158)

• 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 3BDH000690R1

Signal type Communication interface

HART Yes

SOE N/A

Redundancy Yes

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.)