SA920B Power Supply
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 B. For installation in hazardous area Zone 2. For connecting intrinsically safe field devices installed in Zone 2, Zone 1 or Zone 0.

SA920B Power Supply for 24 V DC, for redundant termination unit TU921B (TU16R-B) in S900 I/O. Do not mix SA910B with SA920B for redundancy (observe Release Notes).

Features and benefits

• ATEX Certification for installation in Zone 2
• 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
• Powering of communication interfaces and I/O modules
• Hot swap capability in Zone 2
• Redundant powering
• Alarm in case of power failure (with redundancy)
• Switching On by tighten the 4 switch-on interlock screws

General info	
Article number	3BDH000601R1
Signal specification	24 V d.c. (19.2 - 32 V d.c.)
Signal type	Power supply
SOE	N/A
Redundancy	Yes
Intrinsic safety	Yes
Mechanics	S900

Environment and certification

CE mark	Yes
Hazardous Location	ATEX Zone 2
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	47 mm (1.85 in.)
Depth	117 mm (4.6 in.)
Height	129 mm 5.1 in.)
Weight	1.6 kg (3.5 lbs.)

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