

# DP910B (FI2-B)

## 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.

DP910B Frequency Input (FI2-B), frequency input for dry contacts or proximity switches.

### 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
- Frequency input for dry contacts or proximity switches
- Short and break detection
- Electrical isolation between input / bus and input / power
- Frequency measurement or counting applications
- 2 Function blocks
- Reset via fieldbus or control input
- Status outputs / Direction recognition

#### General info

|                  |                 |
|------------------|-----------------|
| Article number   | 3KDE175362L9100 |
| Type             | Pulse counter   |
| Signal type      | Frequency input |
| SOE              | N/A             |
| Redundancy       | No              |
| 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  | 20 mm (0.79 in.)     |
| Depth  | 104 mm (4.09 in.)    |
| Height | 104 mm (4.09 in.)    |
| Weight | 0.125 kg (0.27 lbs.) |

---

**solutions.abb/800xA**  
**solutions.abb/controlsystems**

---

800xA and Symphony Plus is a registered trademark of ABB. All rights to other trademarks reside with their respective owners.

We reserve the right to make technical changes to the products or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not assume any responsibility for any errors or incomplete information in this document.

We reserve all rights to this document and the items and images it contains. The reproduction, disclosure to third parties or the use of the content of this document – including parts thereof – are prohibited without ABB's prior written permission.

Copyright© 2026 ABB All rights reserved