SIMATIC ET 200PRO F-DI

Product Data Sheet

6ES7148-4FA00-0AB0

Fail-safe digital input module

PHYSICAL DIGITAL INPUTS	SAFETY CHANNEL ARRANGEMENT	SUPPLY POLARITY PROTECTION	SUPPLY 1L+ DEMAND
16 at 24 V DC	**8/16 F-DI, configuration dependent**	**Provided**	**120 mA typical**

Siemens 6ES7148-4FA00-0AB0 is a fail-safe input electronics module for the SIMATIC ET 200pro distributed I/O family. Its sixteen 24 V DC physical inputs support the documented 8/16 F-DI arrangements through PROFIsafe. The achievable safety level depends on the complete channel configuration and validated installation.

01 TECHNICAL DATA

Physical digital inputs	16 at 24 V DC
Safety channel arrangement	8/16 F-DI, configuration dependent
Supply polarity protection	Provided
Supply 1L+ demand	120 mA typical
Backplane current	20 mA maximum at 3.3 V
Typical input-on current	3.7 mA
Power dissipation	4.5 W typical
Safety communication	PROFIsafe
Maximum SIL capability	SIL 3 per IEC 61508, validated arrangement
Maximum performance level	PL e per ISO 13849-1, validated arrangement

Siemens 6ES7148-4FA00-0AB0 manufacturer specification, applicable pages 1.

02 ADDITIONAL PRODUCT DATA

Maximum category	Category 4 per EN 954-1, validated arrangement

03 PRODUCT FUNCTION

The module has reverse-polarity protection, a typical input current of 3.7 mA for an active signal and typical dissipation of 4.5 W. Its specified safety capability reaches SIL 3, PL e and Category 4 when the required conditions are met. The 90 mm electronics assembly requires the applicable ET 200pro mounting and connection components.

04 SYSTEM COMPATIBILITY

Parameterize PROFIsafe addressing and the required channel safety behavior using the applicable original instructions. The SIL and performance-level capability requires the complete validated arrangement, rather than the input module alone.

05 REFERENCE

Siemens 6ES7148-4FA00-0AB0 manufacturer specification, applicable pages 1.

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