SIMATIC ET 200S

Product Data Sheet

6ES7138-4FA04-0AB0

ET 200S Fail-Safe Digital Input Module

FUNCTION	FAMILY	ORIGIN	WEIGHT
ET 200S Fail-Safe Digital Input	**SIMATIC ET 200S**	**Germany**	**0.092 kg**

Siemens 6ES7138-4FA04-0AB0 is a ET 200S Fail-Safe Digital Input Module for the SIMATIC ET 200S. The values below are limited to the exact documented article.

01 VERIFIED TECHNICAL DATA

Input arrangement	8 single-channel inputs or 4 dual-channel evaluated pairs
Rated module supply	24 V DC; permissible 20.4-28.8 V DC; no reverse-polarity protection
Supported sensors	Switches and 3/4-wire proximity sensors; 2-wire proximity sensors are not supported
Input logic levels	Signal 0: -30 to +5 V; signal 1: +15 to +30 V
Input characteristic	IEC 61131 Type 1; typical signal-1 input current 3.7 mA
Input-delay settings	0.5, 3 or 15 ms for all inputs; default 3 ms; delay-dependent shielding and minimum-pulse conditions apply
Sensor-power outputs	2 short-circuit-protected outputs, each 300 mA; total 600 mA; minimum loaded voltage L+ minus 1.5 V
Sensor evaluation	1oo1 or 1oo2; equivalent or nonequivalent dual-channel connections are configurable
Discrepancy monitoring	10-30,000 ms for paired inputs; last-valid-value or zero-value response; selected time affects response assessment
I/O address allocation	6 input bytes and 4 output bytes; only documented useful-data addresses may be accessed

Technical values are limited to the exact manufacturer record and applicable official manual.

02 ADDITIONAL PRODUCT DATA

PROFIsafe destination address	1-1022; physical DIP address must match the engineering project and uniqueness rules
F monitoring time	10-10,000 ms; default 150 ms
Signal-cable limit	Maximum 200 m; 0.5 ms filtering requires shielded sensor/input cables; 3 ms shielding is required where surge exposure is possible
Module power dissipation	Typical 4 W
Diagnostic indications	SF group fault, individual input status and separate Vs1/Vs2 sensor-supply fault indicators; not safety-function signals

03 OFFICIAL APPLICATIONS

- Control and monitoring systems: Model specific integration and maintenance
- Plant production equipment: Documented signal and communication functions
- Installed base maintenance: Exact article replacement and commissioning

04 SYSTEM COMPATIBILITY

Match 6ES7138-4FA04-0AB0 to the installed SIMATIC ET 200S, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

05 OFFICIAL SOURCES

Siemens official technical documentation for 6ES7138-4FA04-0AB0

C:\Users\Administrator\Desktop\AMIKONG■■■\6ES7138-4FA04-0AB0.pdf

AMIKON PRODUCT SUPPORT

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