SIMATIC S7-300

Product Data Sheet

6ES7321-7BH01-0AB0

Diagnostic digital input module

DIGITAL INPUTS	LOAD VOLTAGE	SIGNAL-ZERO VOLTAGE	SIGNAL-ONE VOLTAGE
16	**20.4 to 28.8 V DC**	**-30 to +5 V**	**13 to 30 V**

Siemens 6ES7321-7BH01-0AB0 is an SM 321 digital input module with sixteen 24 V DC channels for SIMATIC S7-300. In addition to discrete signal acquisition, it supports configurable diagnostics, hardware interrupts and isochronous operation for applications requiring coordinated input timing.

01 TECHNICAL DATA

Digital inputs	16
Load voltage	20.4 to 28.8 V DC
Signal-zero voltage	-30 to +5 V
Signal-one voltage	13 to 30 V
Input current at signal one	7 mA typical
Selectable input delay	0.1/0.5/3/15/20 ms
Load-supply current maximum	90 mA
Backplane current maximum	130 mA
Power loss	4 W
Shielded cable length	1000 m maximum

02 ADDITIONAL PRODUCT DATA

Unshielded cable length	600 m maximum
Sensor quiescent current	2 mA maximum
Isolation test voltage	500 V DC
Front connector	20 poles
Isolated channel group	16 inputs

03 PRODUCT FUNCTION

The inputs use IEC 61131 Type 2 characteristics and selectable filtering from 0.1 to 20 ms. A single 20-pole front connector carries the field wiring, while optocoupler isolation separates the input group from the backplane bus. Channel status LEDs and a group-error indicator provide local visibility of the input and diagnostic state.

04 SYSTEM COMPATIBILITY

Supply the load circuit within 20.4 to 28.8 V DC and use field signals meeting the 13 to 30 V high-state threshold. Two-wire sensor leakage must remain within the specified 2 mA quiescent-current limit.

05 REFERENCE

Siemens 6ES7321-7BH01-0AB0 technical data and applicable product instructions

AMIKON PRODUCT SUPPORT

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