SIMATIC S7-1500 DI 32X24VDC HF

Product Data Sheet

6ES7521-1BL00-0AB0

High feature digital input

INPUT CHANNEL COUNT	NOMINAL ELECTRONICS SUPPLY	MAXIMUM SUPPLY CURRENT	TYPICAL POWER LOSS
32 in groups of 16	**24 V DC, 19.2-28.8 V**	**40 mA, 20 mA per group**	**4.2 W**

Siemens 6ES7521-1BL00-0AB0 is a High Feature digital input module for SIMATIC S7-1500. It provides thirty-two 24 V DC inputs arranged in two groups of sixteen. Parameterized filtering, channel diagnostics and hardware interrupts support configurable input handling.

01 TECHNICAL DATA

Input channel count	32 in groups of 16
Nominal electronics supply	24 V DC, 19.2-28.8 V
Maximum supply current	40 mA, 20 mA per group
Typical power loss	4.2 W
Counter channels	2, from FS04 / firmware V2.2.1
Counter frequency ceiling	6 kHz, FS04 / firmware V2.2.1 or later
Counter width	32 bit, up-counting
Typical active input demand	2.5 mA
Input signal thresholds	0: -30 to +5 V; 1: +11 to +30 V
Selectable input delay	0.05-20 ms

Siemens 6ES7521-1BL00-0AB0 original product data, applicable source pages 1, 2, 3.

02 ADDITIONAL PRODUCT DATA

Signal cable allowance	1000 m shielded; 600 m unshielded
Minimum isochronous bus cycle	250 microseconds
Wire-break threshold	Below 350 microampere
Group isolation test	707 V DC type test
Interrupt capability	Hardware and diagnostic interrupts

03 PRODUCT FUNCTION

Input delay is adjustable from 0.05 to 20 ms. Two channels can operate as 32-bit counters at up to 6 kHz with hardware status FS04 and firmware V2.2.1 or later. The module also supports isochronous operation, while the screw-terminal or push-in front connector is a separate component.

04 SYSTEM COMPATIBILITY

Wire the two groups of sixteen inputs through the correct separate front connector. Select input filters and wire-break diagnostics for the actual field circuits.

05 REFERENCE

Siemens 6ES7521-1BL00-0AB0 original product data, applicable source pages 1, 2, 3.

AMIKON PRODUCT SUPPORT
+86-18020776786 INFO@AMIKON.CN AMIKONG.COM