SIMATIC ET 200PA SMART

Product Data Sheet

6ES7650-8DK80-0AA0

Thirty-two-channel digital input module

DIGITAL INPUT COUNT	RATED INPUT VOLTAGE	LOGIC ZERO RANGE	LOGIC ONE RANGE
32	**24 V DC**	**-30 to +5 V**	**13 to 30 V**

Siemens 6ES7650-8DK80-0AA0 is an isolated 32-channel 24 V DC digital input for ET 200PA SMART. It provides a fixed three-millisecond input delay and is arranged in two groups of sixteen channels. A separate 40-pin front connector provides the field interface.

01 TECHNICAL DATA

Digital input count	32
Rated input voltage	24 V DC
Logic zero range	-30 to +5 V
Logic one range	13 to 30 V
Typical signal current	7 mA
Fixed input delay	3 ms
Backplane current	50 mA maximum at 5 V
Typical dissipation	6.5 W
Shielded cable limit	1000 m
Unshielded cable limit	600 m

Siemens 6ES7650-8DK80-0AA0 manufacturer specification, applicable pages 1, 2, 3.

02 ADDITIONAL PRODUCT DATA

Two-wire sensor leakage	1.5 mA maximum
Isolation group arrangement	16 channels per group
Input-to-backplane barrier	Optocoupler isolation
Insulation test	500 V DC
Required front connector	40-pin

03 PRODUCT FUNCTION

The specified logic-one range is 13-30 V and the typical input current is 7 mA. Shielded wiring can extend to 1000 m under the documented conditions. All 32 inputs may be active horizontally up to 40 C; the limit becomes sixteen at 60 C. The module includes input status indicators but does not provide diagnostic interrupts.

04 SYSTEM COMPATIBILITY

Budget backplane current and 6.5 W typical dissipation, observing the reduction in simultaneously active inputs at high ambient temperature. Keep signal wiring within the shielded or unshielded cable limits.

05 REFERENCE

Siemens 6ES7650-8DK80-0AA0 manufacturer specification, applicable pages 1, 2, 3.

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