SIMATIC ET 200B

Product Data Sheet

6ES7131-0BH00-0XB0

Sixteen-Channel Digital Input Module

DIGITAL INPUT CHANNELS	RATED SUPPLY	PERMISSIBLE SUPPLY RANGE	TYPICAL LOGIC CURRENT
16	**24 V DC**	**18.5 to 30.2 V DC**	**70 mA from L3+**

Siemens 6ES7131-0BH00-0XB0 is a standard ET 200B digital electronic module with sixteen 24 V DC inputs. It communicates over PROFIBUS DP at up to 12 Mbit/s and supports FREEZE operation. The electronic block is used with the specified TB1/DC, TB1-4/DC, TB3/DC or TB3-4/DC terminal-block arrangement.

01 TECHNICAL DATA

Digital input channels	16
Rated supply	24 V DC
Permissible supply range	18.5 to 30.2 V DC
Typical logic current	70 mA from L3+
Maximum sensor supply current	500 mA from L3+
Typical power loss	2.5 W
Signal-zero voltage	-30 to +5 V
Signal-one voltage	13 to 30 V
Signal-one current	4 mA typical at 24 V; 2 mA minimum
Rising-edge input delay	2 to 3.5 ms

02 ADDITIONAL PRODUCT DATA

Unshielded input cable length	100 m maximum
Two-wire sensor quiescent current	1.5 mA maximum
Maximum PROFIBUS rate	12 Mbit/s
Input group isolation	No
Ingress protection	IP20

03 PRODUCT FUNCTION

The module accepts an 18.5 to 30.2 V DC supply and typically draws 70 mA for its logic. Input thresholds are -30 to +5 V for signal zero and 13 to 30 V for signal one, with a 2 to 3.5 ms rising-edge delay. It supports compatible two-wire sensors with up to 1.5 mA quiescent current and input cables up to 100 m without shielding.

04 SYSTEM COMPATIBILITY

Use one of the specified DC terminal blocks and supply L3+ from a source within 18.5 to 30.2 V DC. Separate the typical 70 mA logic requirement from the maximum 500 mA sensor-supply budget. Apply the manufacturer permanent-wiring arrangement for three-wire or four-wire field connections.

05 REFERENCE

Siemens 6ES7131-0BH00-0XB0 official product data; applicable specification pages.

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