SIMATIC ET 200SP TM POSINPUT 1

Product Data Sheet

6ES7138-6BA00-0BA0

Counter and Position Decoder Module

NOMINAL SUPPLY	SUPPLY LIMITS	MAXIMUM SUPPLY CONSUMPTION	COMPATIBLE BASEUNIT
24 V DC	**19.2 to 28.8 V DC**	**75 mA without load**	**Type A0**

Siemens 6ES7138-6BA00-0BA0 is the TM PosInput 1 counter and position-decoder module for SIMATIC ET 200SP. It connects RS422 incremental encoders, 5 V TTL push-pull incremental encoders or SSI absolute encoders, and includes two 24 V digital inputs and two transistor outputs. The module fits a type A0 BaseUnit and operates from a 24 V DC supply within the specified 19.2 to 28.8 V range.

01 TECHNICAL DATA

Nominal supply	24 V DC
Supply limits	19.2 to 28.8 V DC
Maximum supply consumption	75 mA without load
Compatible BaseUnit	Type A0
Digital inputs	2; 24 V DC type 3
Digital outputs	2; 0.5 A each
Total output current	1 A
Incremental encoder interface	RS422 or 5 V TTL push-pull
Maximum incremental input frequency	1 MHz
Maximum quadrature counting frequency	4 MHz

Siemens 6ES7138-6BA00-0BA0 official technical data; applicable specification pages.

02 ADDITIONAL PRODUCT DATA

SSI telegram length	10 to 40 bits
Maximum SSI clock	2 MHz
SSI coding	Binary or Gray
Encoder supply capacity	300 mA maximum
Typical power loss	1.9 W

03 PRODUCT FUNCTION

Incremental signals are accepted at up to 1 MHz, with quadrature evaluation supporting a counting frequency of up to 4 MHz. SSI telegrams can contain 10 to 40 bits in binary or Gray coding, with a maximum clock of 2 MHz. Each digital output is rated 0.5 A, with 1 A permitted in total. Address allocation and engineering requirements depend on the selected operating mode and firmware, rather than being identical for every configuration.

04 SYSTEM COMPATIBILITY

Select the incremental or SSI interface and enter the actual encoder coding, telegram length and clock settings. Incremental input frequency is limited to 1 MHz; the 4 MHz figure describes quadrature counting. SSI permits 10 to 40 bits, but the chosen clock must also suit the encoder and installed cable.

05 REFERENCE

Siemens 6ES7138-6BA00-0BA0 official technical data; applicable specification pages.

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