

SIMATIC ET 200SP

Product Data Sheet

6ES7138-6BA01-0BA0

TM PosInput 1 Technology Module

ENCODER	INPUTS	OUTPUTS	SUPPLY
Incremental / SSI	2 DI	2 × 0.5 A	24 V DC

Siemens 6ES7138-6BA01-0BA0 is an ET 200SP TM PosInput 1 technology module for encoder-based position, counting and measurement functions.

01

VERIFIED TECHNICAL DATA

Product type	TM PosInput 1
Firmware version	V2.0
BaseUnit	Type A0
Color code	CC00
Rated supply	24 V DC
Input current without load	75 mA maximum
Encoder supply	5 V or 24 V
Encoder supply current	300 mA maximum total

Values are limited to this exact Siemens order number and the cited official manual.

02

ADDITIONAL VERIFIED DATA

Digital inputs	2
Digital outputs	2 transistor outputs
Output current	0.5 A per channel
Incremental encoder frequency	1 MHz input; 4 MHz counting
SSI encoder data length	10–40 bit
Dimensions W × H × D	15 × 73 × 58 mm
Weight	Approx. 45 g

03

PRODUCT FUNCTION

The exact module supports RS422 or TTL incremental encoders, SSI absolute encoders from 10 to 40 bits, two digital inputs, two 0.5 A transistor outputs and encoder clock rates up to 2 MHz.

04

OFFICIAL APPLICATIONS

- Incremental encoder position detection
- SSI absolute position acquisition
- Forward and reverse counting
- Frequency and period measurement
- Encoder-referenced digital output control

05

OFFICIAL SOURCES

[Siemens exact product record](#)

[SIMATIC ET 200SP TM PosInput 1 Technical Data](#)

AMIKON PRODUCT SUPPORT

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