SIMATIC ET 200ISP

Product Data Sheet

6ES7131-7RF00-0AB0

Eight-channel NAMUR Input Module

NAMUR INPUT CHANNELS	INPUT DELAY RISING EDGE	INPUT DELAY FALLING EDGE	MAXIMUM SHIELDED CABLE
8	**2.8 to 3.5 ms**	**2.8 to 3.5 ms**	**500 m**

Siemens 6ES7131-7RF00-0AB0 is the SIMATIC ET 200iSP electronic module with eight NAMUR digital inputs. It supports the specified NAMUR sensor arrangement and provides channel-status and group-fault indications. Both input transitions have a documented delay of 2.8 to 3.5 ms, and shielded signal cables may extend to 500 m under the installation conditions.

01 TECHNICAL DATA

NAMUR input channels	8
Input delay rising edge	2.8 to 3.5 ms
Input delay falling edge	2.8 to 3.5 ms
Maximum shielded cable	500 m
Maximum connected sensors	8
Signal-zero NAMUR current	1.2 mA maximum
Signal-one NAMUR current	2.1 mA minimum
Frequency measuring channels	2
Frequency gate intervals	50 ms, 200 ms or 1 s
Counter inputs	2, normal or periodic count

02 ADDITIONAL PRODUCT DATA

Maximum counting rate at 20 m cable	5 kHz
Maximum counting rate at 100 m cable	1 kHz
Maximum counting rate at 200 m cable	500 Hz
Permissible circuit potential difference	60 V DC / 30 V AC

03 PRODUCT FUNCTION

Two frequency-measuring channels and two normal or periodic counter inputs extend the basic digital-input functions. Frequency gate intervals are 50 ms, 200 ms or 1 second. Permissible counting rate depends on cable length: up to 5 kHz at 20 m, 1 kHz at 100 m and 500 Hz at 200 m. Intrinsically safe installation requires the applicable ET 200iSP instructions and certification conditions.

04 SYSTEM COMPATIBILITY

Plan field cables using the permitted shielded length and the more restrictive counting-rate limits where frequency or count functions are selected. The module provides two frequency channels with 50 ms, 200 ms or 1 second gate settings. Retain the required terminal arrangement and potential separation from the backplane.

05 REFERENCE

Siemens 6ES7131-7RF00-0AB0 Data Sheet, 15 May 2018, pages 1-2.

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