SIMATIC SC

Product Data Sheet

6ES7123-1JA00-0AB0

RTD resistance input submodule

ANALOG INPUT COUNT	COMPATIBLE TERMINAL BLOCK	NOMINAL SUPPLY	MAXIMUM SUPPLY CURRENT
One	**TB 16SC**	**24 V DC**	**30 mA**

Siemens 6ES7123-1JA00-0AB0 is a one-channel SIMATIC SC analog electronic submodule for Pt100 and Ni100 resistance thermometers or 0...600 ohm resistance signals. It occupies one of the eight positions on the compatible TB 16SC terminal block.

01 TECHNICAL DATA

Analog input count	One
Compatible terminal block	TB 16SC
Nominal supply	24 V DC
Maximum supply current	30 mA
Typical power loss	0.6 W
Resistance range	0...600 ohm
Pt100 standard range	-200...+850 degrees C
Pt100 climate range	-120...+130 degrees C
Ni100 range	-60...+250 degrees C
Typical measuring current	1.5 mA

02 ADDITIONAL PRODUCT DATA

Typical channel cycle	110/130 ms
Maximum shielded cable	50 m
Resistance wiring	Four-wire with line-resistance compensation
Smoothing settings	Four digital-filter stages
Linearity error	+/-0.05% of input range

03 PRODUCT FUNCTION

The input uses a typical 1.5 mA measuring current and supports four-wire resistance measurement with line-resistance compensation. Sensor linearization, four selectable smoothing stages and 50/60 Hz interference suppression are configurable; the module operates from nominal 24 V DC and draws up to 30 mA.

04 SYSTEM COMPATIBILITY

Use the documented four-wire connection for lead-resistance compensation and shielded sensor cable within the 50 m limit. Keep input-to-MANA potential differences within the specified 2 V DC / 2 V peak-to-peak AC allowance.

05 REFERENCE

Siemens 6ES7123-1JA00-0AB0 official product data sheet

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