AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7321-1BH82-0AA0

Expanded-Temperature Digital Input Module

MODULE	INPUTS	SIGNAL	CONNECTOR
SM 321	16 digital	24 V DC	20-pin

Siemens 6ES7321-1BH82-0AA0 is an SM 321 digital input module for SIMATIC S7-300, identified by the manufacturer for an expanded temperature range. It provides sixteen nominal 24 V DC inputs through a 20-pin front connector, with optical isolation from the backplane.

01 VERIFIED TECHNICAL INFORMATION

Digital input channels	16
Load supply L+	24 V DC rated; permissible range 20.4-28.8 V DC
Load-supply current without load	25 mA maximum
Backplane current at 5 V DC	10 mA maximum
Typical power loss	3.5 W
Rated digital input voltage	24 V DC
Input-state voltage thresholds	Signal 0: -30 to +5 V; signal 1: 13 to 30 V

Manufacturer evidence: Data sheet 6ES7321-1BH82-0AA0; exact-model verified specifications and manufacturer data sheet.

02 TECHNICAL INFORMATION CONTINUED

Signal-1 input current	9 mA typical
Rising-edge input delay	1.2-4.8 ms for transition from 0 to 1 at rated input voltage
Maximum input cable length	1,000 m shielded; 600 m unshielded
Two-wire sensor allowance	Supported; quiescent current 1.5 mA maximum
Input potential separation	One group of 16 channels; optocoupler isolation from backplane
Isolation test voltage	500 V DC
Required front connector	20-pin
Simultaneously controllable inputs	16 in all mounting positions at the listed 40 and 60 degrees C conditions

03 SOURCE AND CONFIGURATION CHECKS

The inputs form one sixteen-channel potential group and support compatible two-wire sensors. Defined voltage thresholds distinguish input states, while the rising-edge delay is specified from 1.2 to 4.8 milliseconds. The data sheet also documents sensor leakage-current and signal-cable length limits.

Packed dimensions and supplied-unit origin must be checked against the actual delivery. No verified gross shipping weight is inferred from module net mass.

Amikon-hosted original Siemens data-sheet pages

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