AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7221-1BF30-0XB0

Eight-Channel Digital Input Module



INPUTS	FILTER GROUPS	BUS CURRENT	REFERENCE EDITION
8 x 24 V DC	**Four channels per setting**	**105 mA**	**04/2012**

Siemens 6ES7221-1BF30-0XB0 is an SM 1221 digital input module with eight 24 V DC inputs. It supports sink/source wiring through two group references, with the first four channels assigned to X10 and the remaining four to X11.

01 VERIFIED TECHNICAL INFORMATION

Digital inputs	8
Input type	Sink/source; IEC Type 1 sink
Rated input	24 V DC at 4 mA nominal
Continuous permissible voltage	30 V DC maximum
Logic 1 threshold	15 V DC at 2.5 mA minimum
Logic 0 threshold	5 V DC at 1 mA maximum
Filter settings	0.2, 0.4, 0.8, 1.6, 3.2, 6.4 or 12.8 ms; groups of four

Manufacturer evidence: S7-1200 Programmable Controller System Manual; exact-model manual section.

02 TECHNICAL INFORMATION CONTINUED

Isolation groups	2
Field-to-logic isolation test	500 V AC for one minute; not a protective safety boundary
SM-bus current	105 mA
Power dissipation	1.5 W
Cable length	500 m shielded; 300 m unshielded

03 SOURCE AND CONFIGURATION CHECKS

Seven selectable filter times from 0.2 to 12.8 ms are applied in groups of four, allowing the input response to match the configured signals. The 45 mm-wide module draws 105 mA from the SM bus; its input thresholds and field-side current are specified separately from that bus requirement.

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

Siemens original documentation and product reference

Siemens 01/2013; UP source pp. 1-2

AMIKON PRODUCT SUPPORT

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