

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7131-4RD02-0AB0

ET 200S NAMUR Input Module



INPUTS	SENSOR	DELAY	WIDTH
4 NAMUR	8.2 V DC	4.6 ms max.	15 mm

Siemens 6ES7131-4RD02-0AB0 is an ET 200S digital electronics module with four inputs for NAMUR sensors and documented mechanical contact arrangements. It provides an 8.2 V DC sensor supply and transfers input signals together with their validity information.

01

VERIFIED TECHNICAL INFORMATION

Input channels	4; changeover contacts use channel pairs
Sensor supply voltage	8.2 V DC
Sensor supply output current	45 mA rated
Input signal current, NAMUR	Signal 1: 2.1–7 mA; signal 0: 0.35–1.2 mA
Input delay	Maximum 4.6 ms for both transitions
Shielded cable length	Maximum 200 m
Power dissipation	Typically 1.6 W

Manufacturer evidence: Digital electronic module 4DI NAMUR (6ES7131-4RD02-0AB0); exact-model manual section.

02 TECHNICAL INFORMATION CONTINUED

Address space	2 bytes, including input value status
Parameter length	12 bytes
Pulse stretching	None, 0.5 s, 1 s or 2 s
Chatter monitoring	2–31 signal changes; monitoring window 0.5 s or 1–100 s
Changeover contact time	Fixed tolerated transition time 300 ms
Diagnostic thresholds	Short circuit above 7 mA; wire break below 0.35 mA for applicable sensor types
Isolation	Channels not mutually isolated; channels isolated from backplane and load voltage
Additional sensor supply	Redundant external supply not permitted

03 SOURCE AND CONFIGURATION CHECKS

Parameter settings select the sensor type, pulse stretching and chatter monitoring. Diagnostic options cover wiring and sensor-supply conditions within the supported circuit types. Changeover-contact operation uses paired channels and checks their switching relationship rather than treating all four channels as independent contact values.

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

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