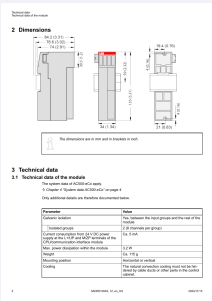


AMIKON TECHNICAL INTELLIGENCE

Product Data Sheet

ABB DI562

AC DC Input Module



INPUTS	GROUPS	SIGNALS	INPUT IMAGE
16 DI	2 x 8	24 V AC/DC	2 bytes

ABB DI562 acquires sixteen 24 V AC or DC digital signals in two isolated eight-channel groups. The S500-eCo module supports the documented source, sink and AC input arrangements, with signal-state indication for each channel.

01 VERIFIED PRODUCT PARAMETERS

Input-channel count	16 digital inputs
Galvanic isolation	Two isolated eight-channel groups; isolated from the remainder of the module
Supported signal arrangements	Type 1 source, Type 1 sink and Type 1 AC according to EN 61131-2
Nominal input signals	-24 V DC, +24 V DC or 24 V AC at 50/60 Hz
High-state ranges	Negative DC: -30 to -15 V; positive DC: +15 to +30 V; AC: 14-27 V AC
Typical input current at 24 V	5 mA DC or 5 mA rms AC per channel
Two-wire proximity-switch leakage	Maximum 1 mA DC or typically 1 mA rms AC as specified
Input transition delay	Typically 8 ms for either transition
Input data length	2 bytes
Host-side supply consumption	Approximately 5 mA from CPU or communication-interface supply

Technical values were verified against ABB 3ADR010049 rev.12, 2024-11-15, DI562 datasheet.

02

ADDITIONAL TECHNICAL DATA

Internal power dissipation	Maximum 3.2 W
Signal cable length	Maximum 500 m shielded or 300 m unshielded
Operating ambient	Horizontal: 0-60 C; vertical: 0-40 C
Humidity limit	Maximum 95%, without condensation
Housing flammability classification	UL 94 V-0

03

SYSTEM ROLE AND APPLICATIONS

Order 1TNE968902R2102 identifies DI562. Match the group reference connections, terminal blocks and signal type to the field devices. For hardware versions before E0, ABB requires external surge-limiting filters when the inputs are used with 24 V AC.

- AC status acquisition: monitor compatible 24 V AC field-state signals with the documented input and revision conditions.
- Positive DC signal collection: acquire compatible positive-polarity switching signals using the correct group reference.
- Negative DC signal collection: use the documented negative-polarity arrangement for compatible field circuits.

04

OFFICIAL INSTALLATION FACTS

- Isolate supply and field circuits before mounting, wiring or replacing the input module.
- Use the specified nine-pin and eleven-pin terminal blocks and the correct screw or spring connection variant.
- Assign the first eight inputs to terminals 2-9 with reference terminal 1; assign the second group to terminals 11-18 with reference terminal 10.
- Match each group to the documented source, sink or AC signal arrangement; check external surge filters for pre-E0 AC use.

05

OFFICIAL DOCUMENTATION

[ABB 3ADR010049 rev.12, 2024-11-15, DI562 datasheet](#)

AMIKON PRODUCT SUPPORT

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