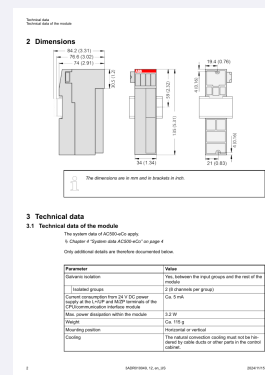


## FIELD INSTALLATION QUICK GUIDE

# Installation Instructions

ABB DI562

AC DC Input Module



|          |                            |
|----------|----------------------------|
| PRODUCT  | DI562                      |
| FAMILY   | AC500 / S500-eCo I/O       |
| FUNCTION | AC DC Input Module         |
| STATUS   | Verify exact configuration |

Prepared by Amikon Limited from ABB 3ADR010049 rev.12, 2024-11-15, DI562 datasheet. This guide does not replace the complete manufacturer manual, site procedure, hazardous-area drawing, or approval document.

## 01 CONFIRM THE ORDERED CONFIGURATION

|                                   |                                                                              |
|-----------------------------------|------------------------------------------------------------------------------|
| 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                        |

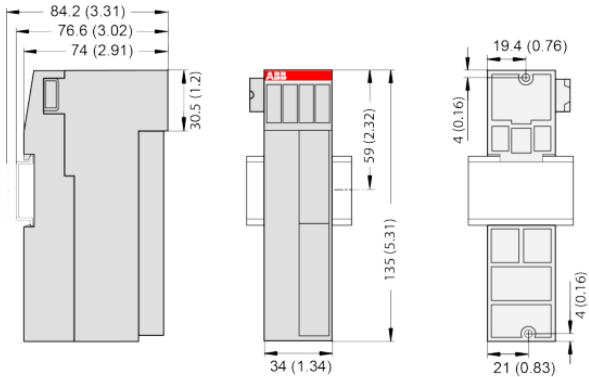
## 02 MOUNTING AND CONNECTION

- 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.
- Preserve natural convection and the horizontal or vertical ambient-temperature limit.

03 OFFICIAL INSTALLATION REFERENCE

Technical data  
Technical data of the module

2 Dimensions



The dimensions are in mm and in brackets in inch.

3 Technical data

3.1 Technical data of the module

The system data of AC500-eCo apply.  
↗ Chapter 4 "System data AC500-eCo" on page 4  
Only additional details are therefore documented below.

| Parameter                                                                                                               | Value                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Galvanic isolation                                                                                                      | Yes, between the input groups and the rest of the module                                                  |
| Isolated groups                                                                                                         | 2 (8 channels per group)                                                                                  |
| Current consumption from 24 V DC power supply at the L+/UP and M/ZP terminals of the CPU/communication interface module | Ca. 5 mA                                                                                                  |
| Max. power dissipation within the module                                                                                | 3.2 W                                                                                                     |
| Weight                                                                                                                  | Ca. 115 g                                                                                                 |
| Mounting position                                                                                                       | Horizontal or vertical                                                                                    |
| Cooling                                                                                                                 | The natural convection cooling must not be hindered by cable ducts or other parts in the control cabinet. |

Official manufacturer reference reproduced from ABB 3ADR010049 rev.12, 2024-11-15, DI562 datasheet. Use the current source document and all referenced drawings and notes for installation.

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## CABLE ROUTING AND CONNECTION

- 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.
- Preserve natural convection and the horizontal or vertical ambient-temperature limit.
- Verify the field states and two-byte input image against the wiring schedule before operation.

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## INITIAL SYSTEM CHECKS

- Confirm model identity and compatible system components before energizing.
- Verify wiring, grounding, enclosure, and applicable hazardous-area requirements.
- Verify the sixteen input states and their controller mapping against the connected field circuits.
- Record the installed order number and baseline operating condition.

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## CONTROLLED DOCUMENTS

|                 |                                                    |
|-----------------|----------------------------------------------------|
| Official source | ABB 3ADR010049 rev.12, 2024-11-15, DI562 datasheet |
| Product record  | DI562                                              |
| Manufacturer    | ABB                                                |
| Support         | INFO@AMIKON.CN                                     |