

# Installation Instructions

## **1KHL178013R0001M BIO01**

industrial I/O module

ABB industrial control systems

## **Before work begins**

- 01 Confirm the exact 1KHL178013R0001M BIO01 article number and installed equipment position.
- 02 Place the equipment in a safe state, isolate all energy sources and follow the applicable ABB discharge or lockout procedure.
- 03 Record terminals, connectors, signal cables, cooling provisions and protective-earth conductors.
- 04 Use ESD controls and qualified industrial-service personnel throughout the replacement.

## Model-specific connection checks

|                    |                                       |
|--------------------|---------------------------------------|
| Manufacturer       | <b>ABB</b>                            |
| Exact Article Code | <b>1KHL178013R0001M BIO01</b>         |
| Product Family     | <b>ABB industrial control systems</b> |
| Component Type     | <b>Industrial I/O Module</b>          |
| System Class       | <b>DCS System</b>                     |
| Mounting Format    | <b>Plug-in control rack</b>           |
| System Interface   | <b>Manufacturer backplane bus</b>     |
| Control Supply     | <b>24 V DC control class</b>          |
| Channel Capacity   | <b>Model-defined channel set</b>      |
| Signal Standard    | <b>System-specific I/O levels</b>     |

## Installation sequence

- Inspect the replacement for transport damage, contamination, bent pins and altered keying.
- Install without forcing connectors or terminals; restore all shields, grounds and cooling provisions.
- Secure power and signal connections under the applicable manufacturer procedure.

## Commissioning and return to service

- 01 I/O and diagnostic functional test.
- 02 Check insulation and protective-earth continuity before energising..
- 03 Restore auxiliary and main power in the approved sequence..
- 04 Observe controller, interface and equipment diagnostics..
- 05 Test the connected signal, network, motor or power function at a controlled operating point..
- 06 Record the final article number, test results and maintenance approval..

This AMIKON installation reference supplements the applicable ABB controlled documentation and the site safety procedure. Warranty: 12 months from AMIKON.