finder IB8A04 CODESYS Expands OPTA Programmable Logic Relay Instructions

Contents

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Product Usage Instructions

Power Connection:

Ensure the device is disconnected from the power source before making any connections. Connect the power supply according to the specified voltage and current ratings.

Input Configuration:

Set up the digital/analog inputs as required, within the specified range of 0 to 10 volts.

Network Setup:

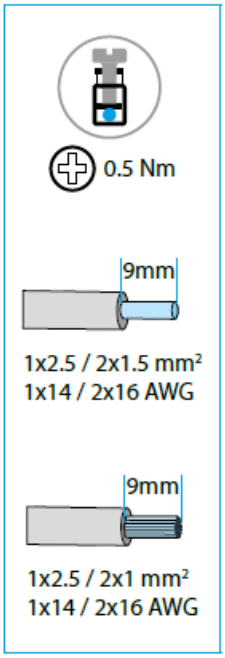
Connect the device to the network using either Ethernet, RS485, Wi-Fi, or BLE based on your requirements. Follow the appropriate setup procedures for each type of connection.

Processor Usage:

Utilize the dual ARM Cortex-M7/M4 processor for executing tasks efficiently. Ensure to follow programming guidelines for optimal performance.

PRODUCT SPECIFICATION

	8A.04.9.024.832C
	U_N (12...24) V DC +–15% Class 2 source I < 200 mA
OUTPUT	4 NO (SPST) 10 A, 250 V AC1 4 A, 24 V DC1 1/2 HP 240 V AC 1/4 HP 120 V AC
INPUT	8 digital/analog (0...10 V)
	STM32H747XI Dual ARM® Cortex® M7/M4 IC: 1x ARM® Cortex® -M7 core up to 480 MHz 1x ARM® Cortex® -M4 core up to 240 MHz
	USB Type C 10/100 Ethernet RS485 Wi-Fi + BLE
	Secure element integrated
	(–20…+50)°C
Open type, EN 60715 rail mounting Environmental Conditions: Extended Humidity 5-95 RH% Altitude 2000 m IP20	



FCC

FCC and RED CAUTIONS (MODEL 8A.04.9.024.832C)

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC RF Radiation Exposure Statement:

- This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter
- This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment
- This equipment should be installed and operated with a minimum distance of 20 cm between the radiator& your body

NOTE

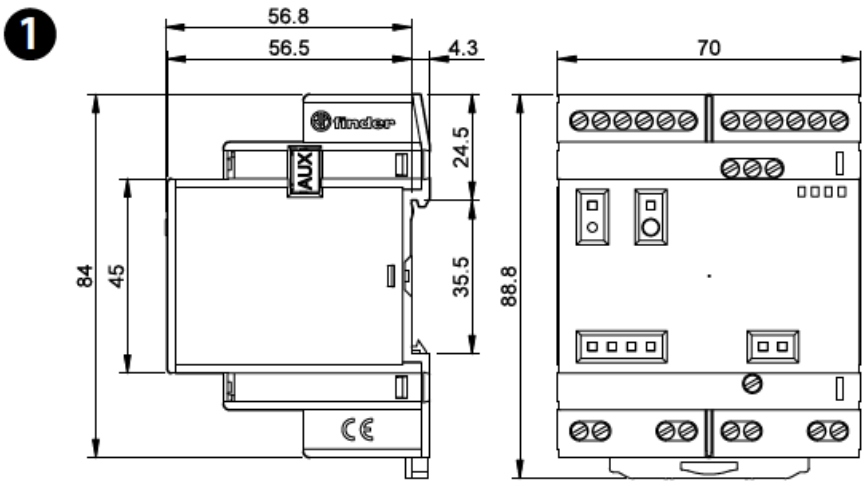
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

RED

The product is in compliance with essential requirements and other relevant provisions of Directive 2014/53/EU. This product is allowed to be used in all EU member states.

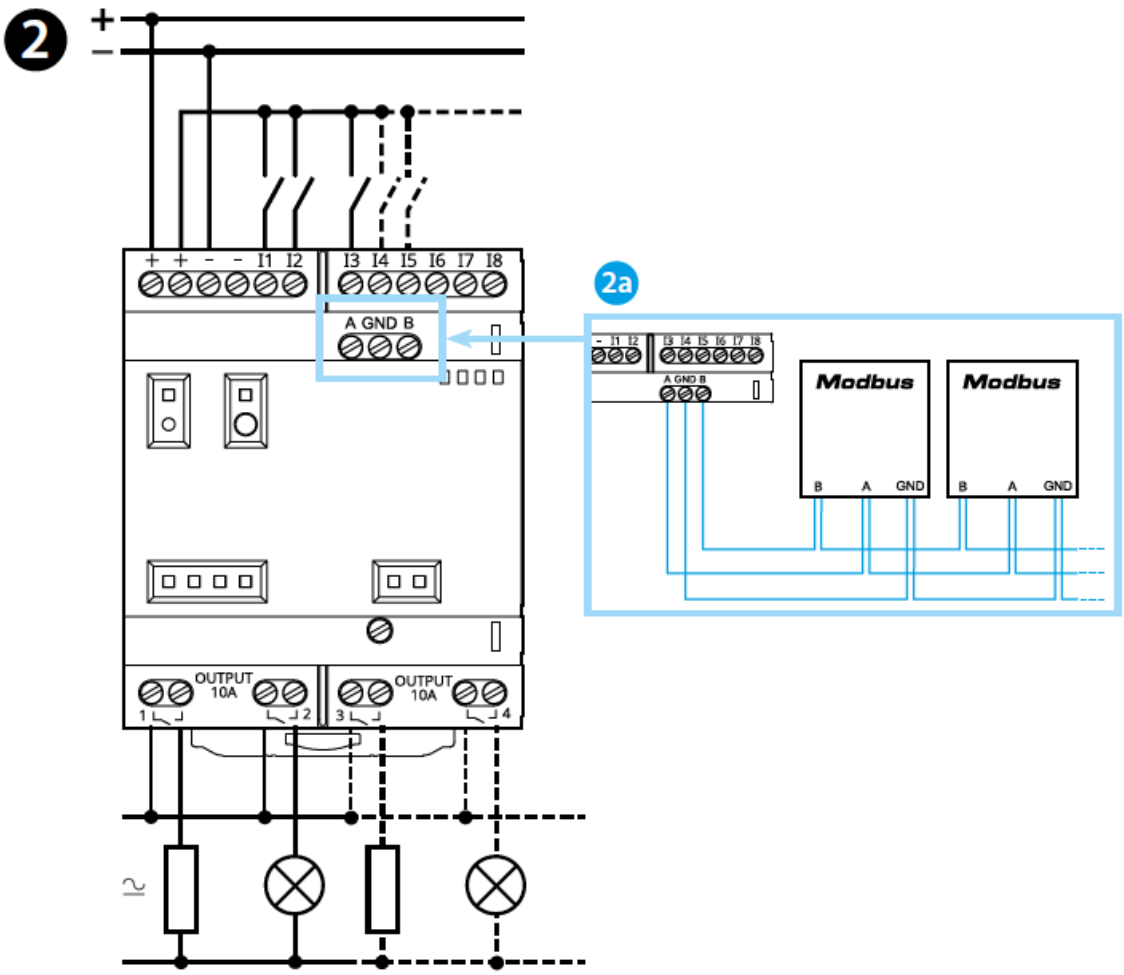
Frequency bands	**Maximum output power (EIRP)**
2412 – 2472 MHz (2.4G WiFi) 2402 – 2480 MHz (BLE) 2402 – 2480 MHz (EDR)	5,42 dBm 2,41 dBm –6,27 dBm

DIMENSIONS



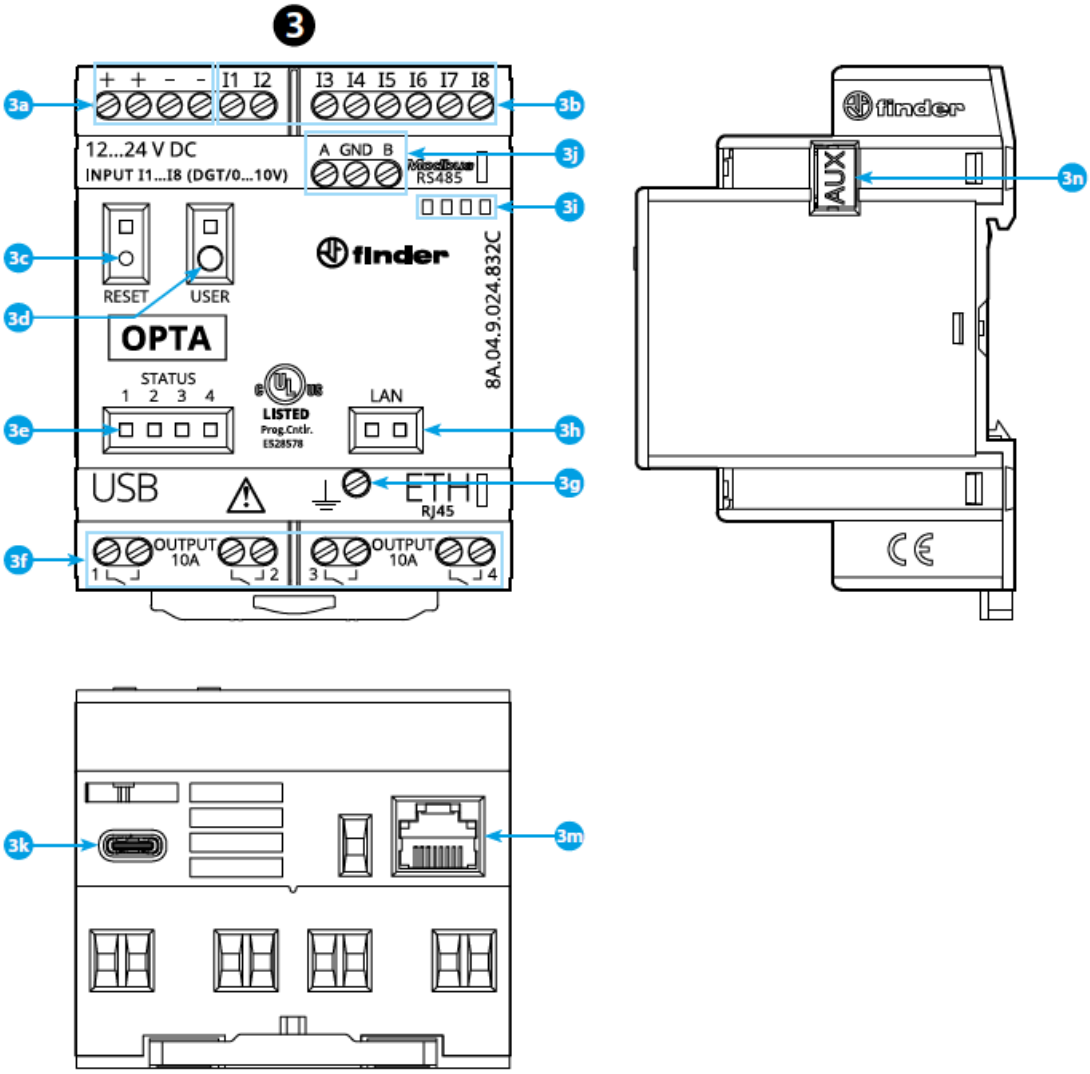
CONNECTION DIAGRAM

- **2a** Modbus RTU connection



FRONT VIEW

- 3a Operating voltage inputs 12…24 V DC
- 3b I1….I8 digital/analog (0…10 V) input configurable via IDE
- 3c Reset button (press with a pointed, insulated tool)
- 3d User-programmable button
- 3e Contact status LED 1…4
- 3f Relay outputs 1…4, normally open 10 A 250 V AC
- 3g Ground terminal
- 3h Status LED of the Ethernet connection
- 3i Holder for nameplate 060.48
- 3j Connection terminals for MODBUS RS485 interface
- 3k USB Type C for programming and data acquisition
- 3m Ethernet connection
- 3n Connection for communication and connection of additional modules



GETTING STARTED GUIDE

opta.findernet.com

- If you want to program your Finder OPTA Type 8A.04 offline, you need to install the CODESYS development environment and the Finder plug-in, both available on the website opta.findernet.com.
- To connect the Finder OPTA Type 8A.04 to your computer, you need a USB-C data cable.
- This also supplies power to the Finder OPTA Type 8A.04, which is indicated by the LED.

NOTE

- If the device is used in a manner not specified by the manufacturer, the protection provided by the device may be impaired

CONTACT INFORMATION

- **Technical Support**
  +49(0) 6147 2033-220

FAQs

Q: What should I do if the device is not powering on?

- A: Check the power connection and ensure that the input voltage and current are within the specified limits. Also, verify that the device is not in a faulty state.

Q: How can I troubleshoot network connectivity issues?

- A: Verify that the network cables are properly connected, and the network settings are configured correctly. Check for any IP conflicts and ensure proper signal strength for wireless connections.

Q: Can I expand the input/output capabilities of the device?

- A: The device supports additional expansion modules for increasing input/output capacity. Refer to the user manual for compatible expansion options.

Documents / Resources

	finder IB8A04 CODESYS Expands OPTA Programmable Logic Relay [pdf] Instructions IB8A04 CODESYS, IB8A04 CODESYS Expands OPTA Programmable Logic Relay, Expands OPTA Programmable Logic Relay, Programmable Logic Relay, Logic Relay, Relay

References

- User Manual