

Zentro Core L-028

Safety and Quick Start · For the installer and the panel builder

Part number ZN-COREL-001 · Document number ZT-QS-CORE-L028-001-EN

This document is supplied with the product. Retain it for future reference.

SAFETY

WARNING

Disconnect the supply before any wiring work. Working on a live circuit risks personal injury and irreversible damage to the unit.

CAUTION

A line terminator fitted at more than two points will load the line and degrade communication.

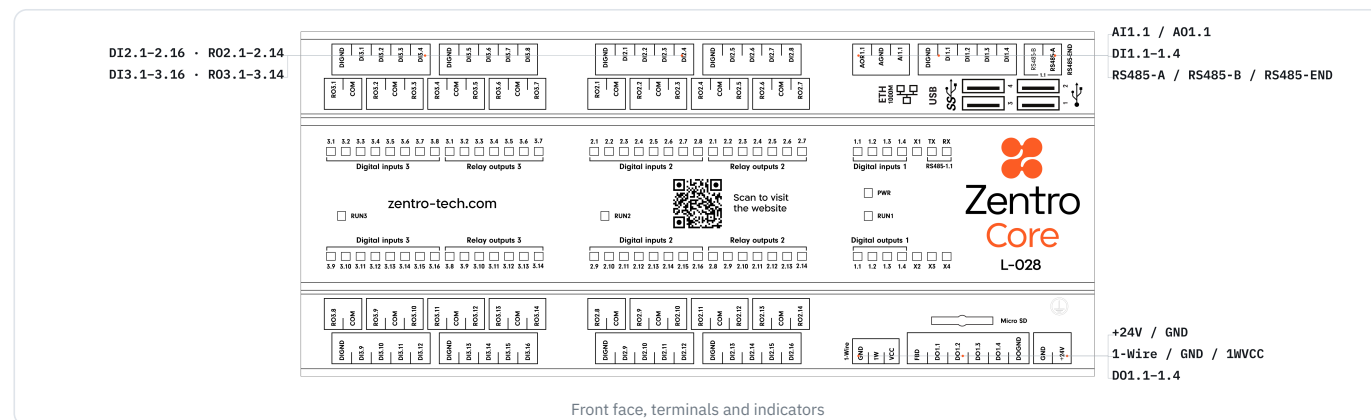
NOTE

Add external protection to every inductive load — an RC circuit, a varistor or a diode.

OPERATING LIMITS

Supply voltage	24 V DC (SELV)
Operating temperature	0 ... +55 °C
Ingress protection	IP 20
Tightening torque	Max 0.4 N·m

TERMINALS AND CONNECTORS

DI1.1-1.4 · D01.1-1.4 · AI1.1 · Inputs, outputs and communication — commons DIGND / DOGND / AGND
A01.1 · RS485 · 1-Wire

DI2.1-2.16 · R02.1-2.14 Digital inputs and relays, section 2 — commons DIGND / COM

DI3.1-3.16 · R03.1-3.14 Digital inputs and relays, section 3 — commons DIGND / COM

FIRST POWER-UP

1. Ensure the supply is disconnected before any work.
2. Fit the DIN rail holder if it is not already installed, metal spring at the top.
3. Clip the controller onto the 35 mm DIN rail in the vertical position, spring side first.
4. Leave at least 80 mm between the controller and the enclosure walls where there is no forced ventilation.
5. Connect an earth conductor to the marked point on the enclosure using a cable lug and an M4 screw, and confirm the DIN rail is earthed.
6. Connect the 24 V DC supply: positive to +24V, negative to GND.
7. Connect the digital inputs of all three sections to the DI terminals and to the shared DIGND terminals.
8. Connect the relay outputs of sections 2 and 3 to the RO and COM terminals.
9. Connect the RS-485 line to the A and B terminals, and fit a line terminator at the two ends of the line only.
10. Connect 1-Wire sensors to the RJ45 connector, up to 15 sensors per channel.
11. Tighten the terminals to no more than 0.4 N·m.

The product's full document set is available on the website. zentro-tech.com