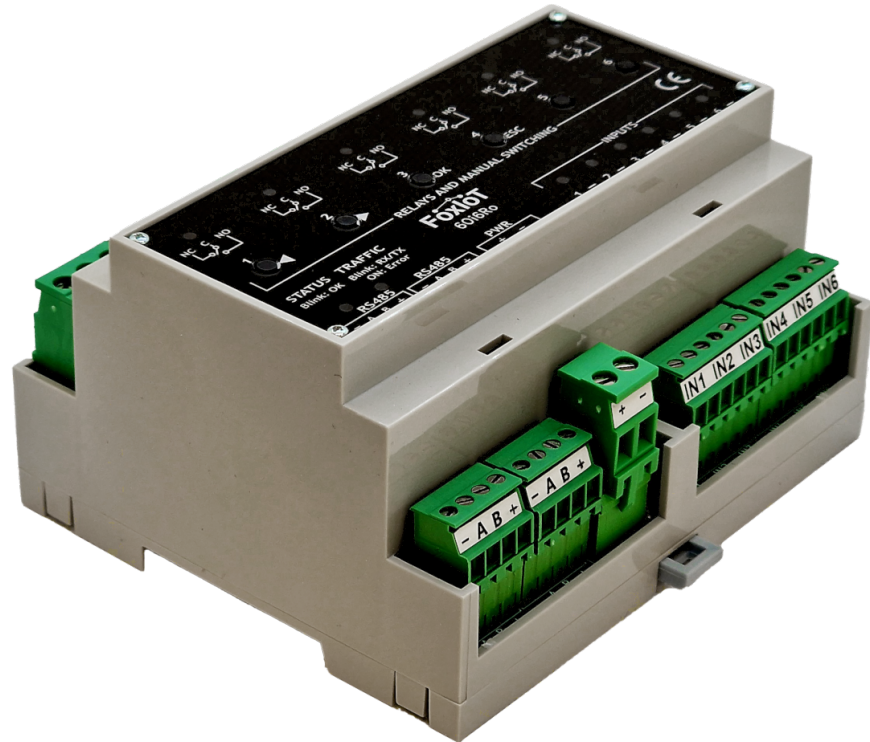




FoxIoT 60i6Ro Wiring Instructions

Wiring Reference and Connection Guide for Installers and System Integrators



Modbus & Power Connection Contents

- 1. Foxlot 6Oi6Ro Modbus Connection Diagram with Shared Power Supply**
- 2. Foxlot 6Oi6Ro Modbus Connection Diagram with Separate Power Supplies for Master and Relay Controllers**

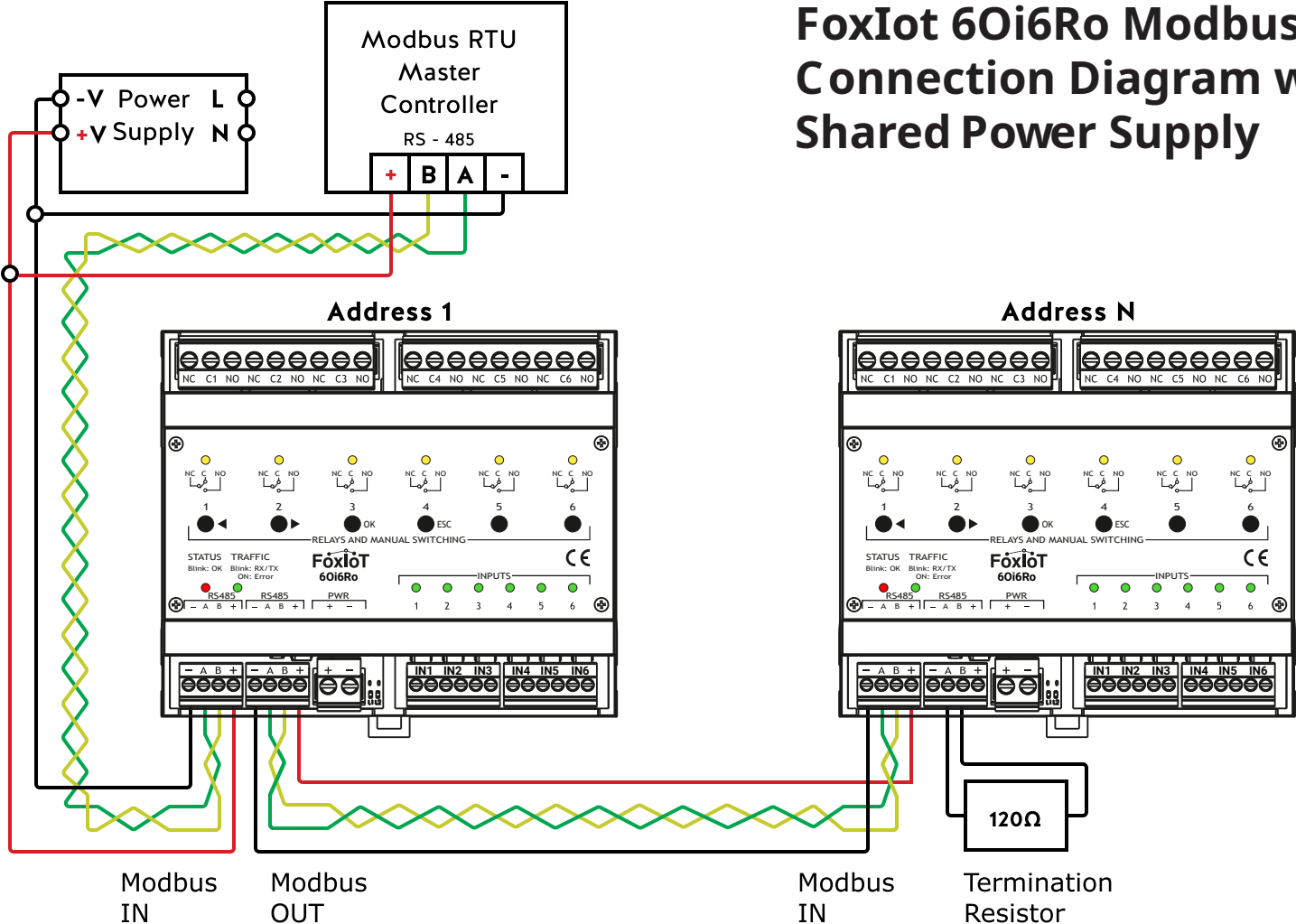
6Oi6Ro Output Connection Contents

- 3. Connecting a Contactor With 24V DC Coil to Controller Output**
- 4. Connecting Lights to Controller Output**
- 5. Connecting Motor to Controller Output**
- 6. Connecting a Contactor with 230V AC coil to Controller Output**
- 7. Connecting Multi-Speed AC Motors (up to 6 speeds) with Cascading Relay Logic to Controller Output**
- 8. Connecting Multi-Speed AC Motors (up to 6 speeds) with Direct Relay Mapping to Controller Output**
- 9. Connecting Multi-Speed AC Motors (3 speed) for Various Applications to Controller Output**
- 10. Connecting External Automation System Inputs to Controller Outputs 1/2**
- 11. Connecting External Automation System Inputs to Controller Outputs 2/2**
- 12. Connecting Electromagnetic Locks and Electromagnetic Door Closers to 6Oi6Ro outputs**
- 13. Connecting Electric Strikes and Solenoid Door Locks to Controller Outputs for Secure Access Control**
- 14. Connecting AC Curtain Motors to Controller Outputs**
- 15. Connecting DC Curtain Motors to Controller Outputs**

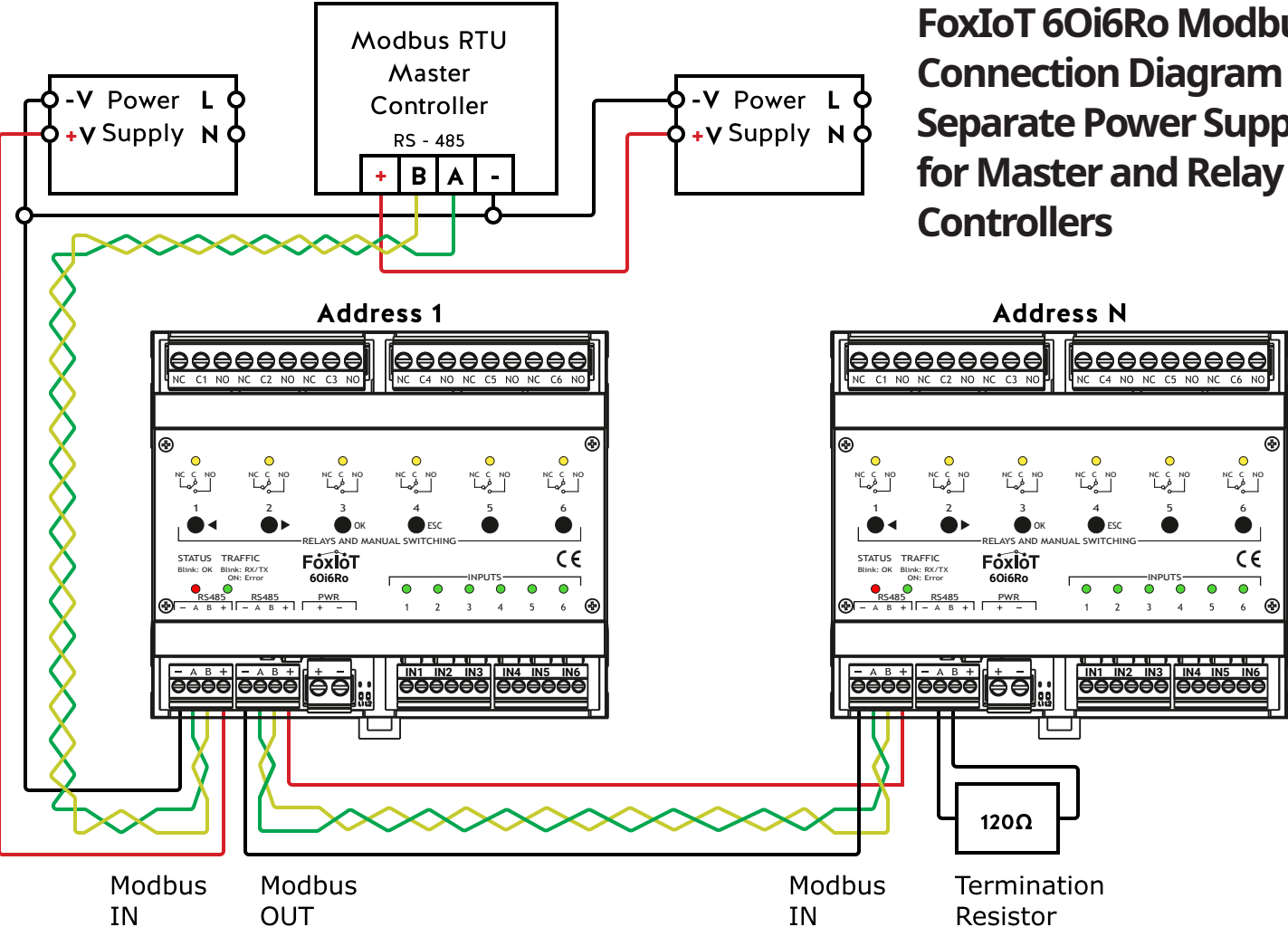
6Oi6Ro Input Connection Contents

- 16. Connecting a Switch or Relay**

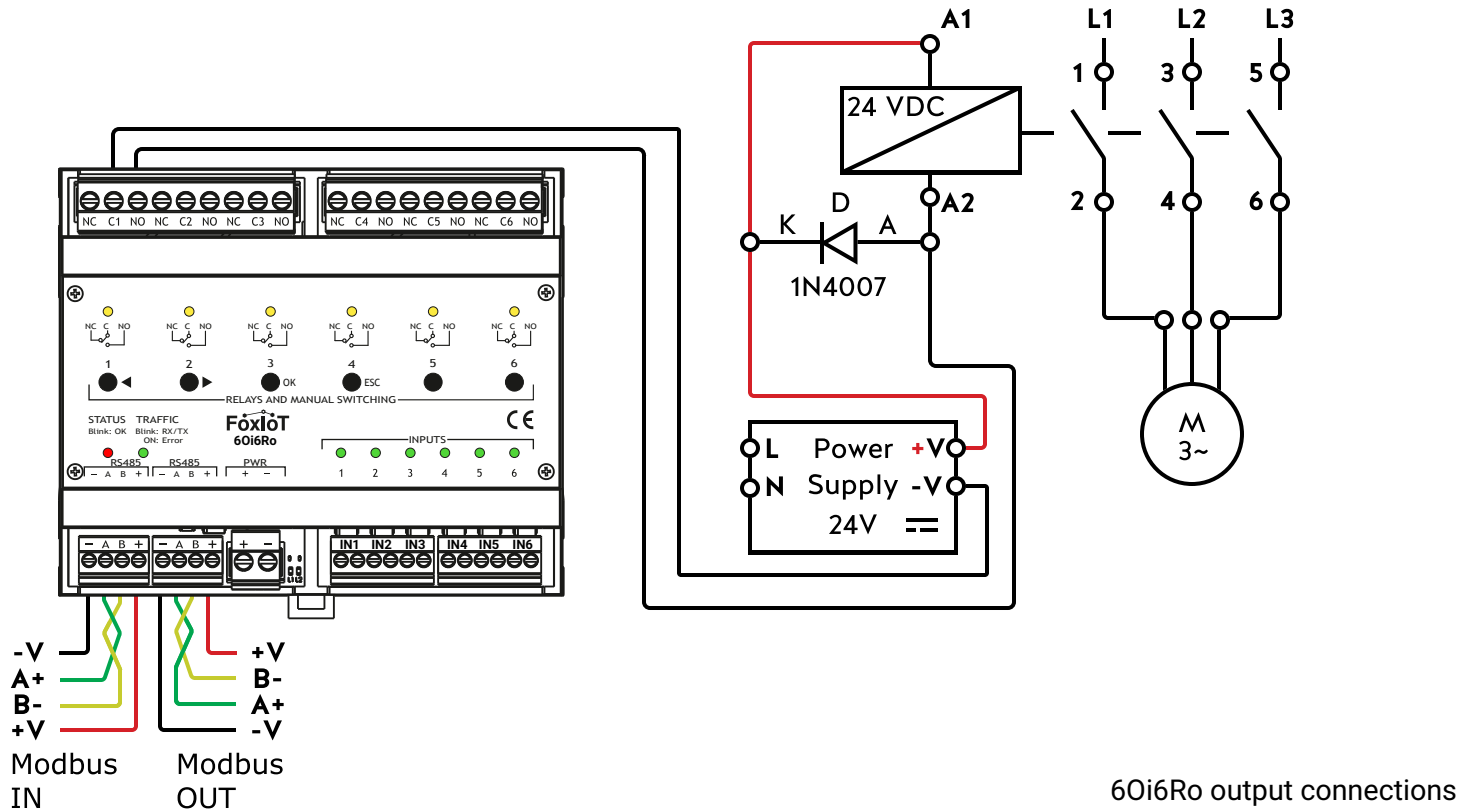
FoxIot 60i6Ro Modbus Connection Diagram with Shared Power Supply



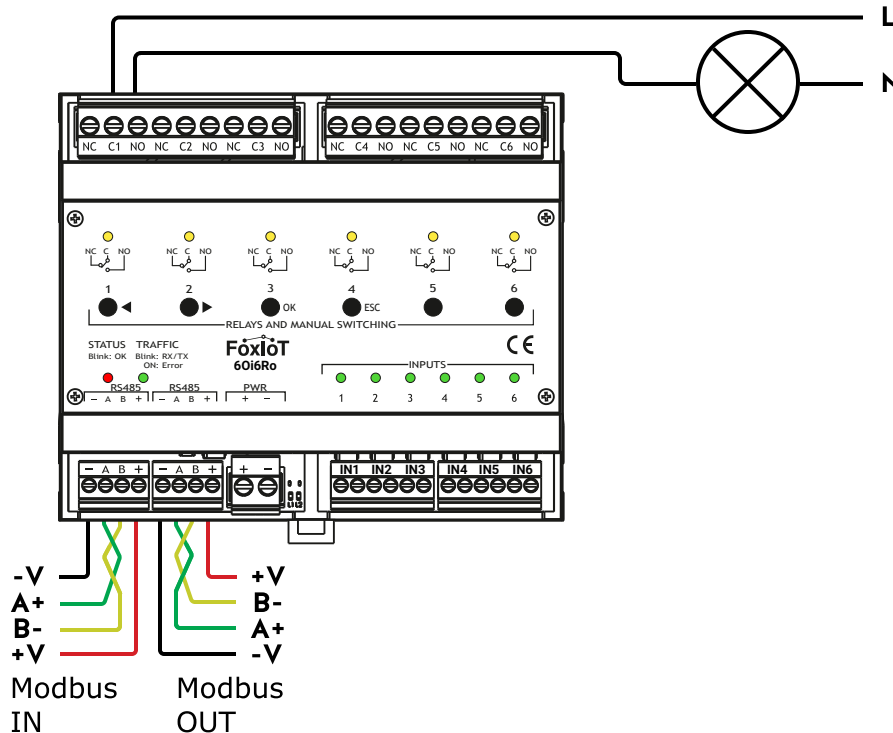
FoxIoT 60i6Ro Modbus Connection Diagram with Separate Power Supplies for Master and Relay Controllers



Connecting a Contactor With 24V DC Coil to Controller Output



Connecting Lights to Controller Output

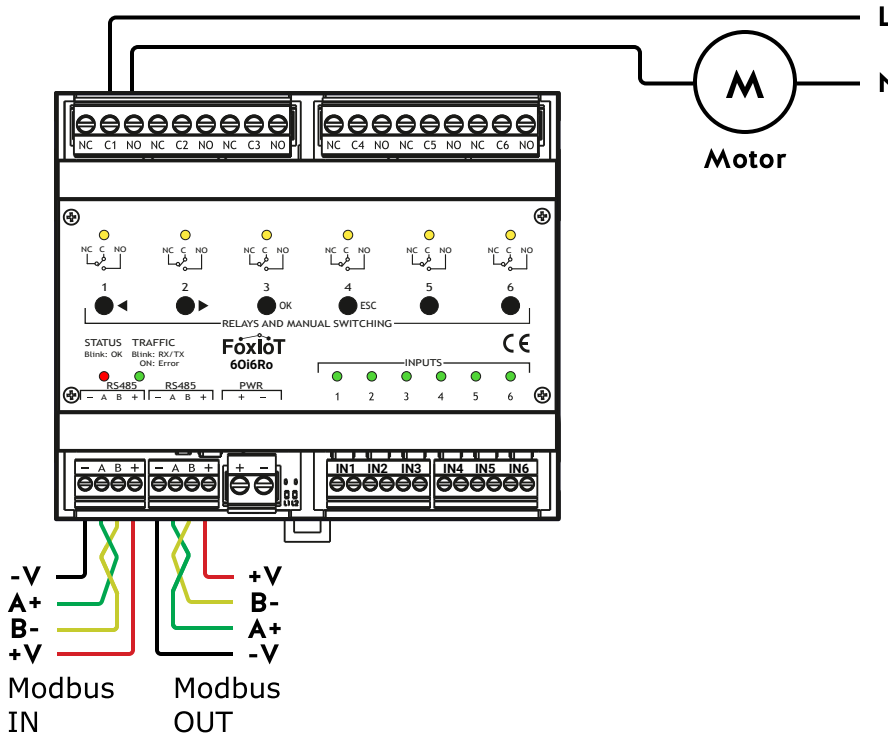


Note: Lights can be connected to any Relay port

Caution: When connecting modern LED lights, be aware of their capacitive load. Ensure the relay can handle the inrush current to avoid damage.

60i6Ro output connections

Connecting Motor to Controller Output

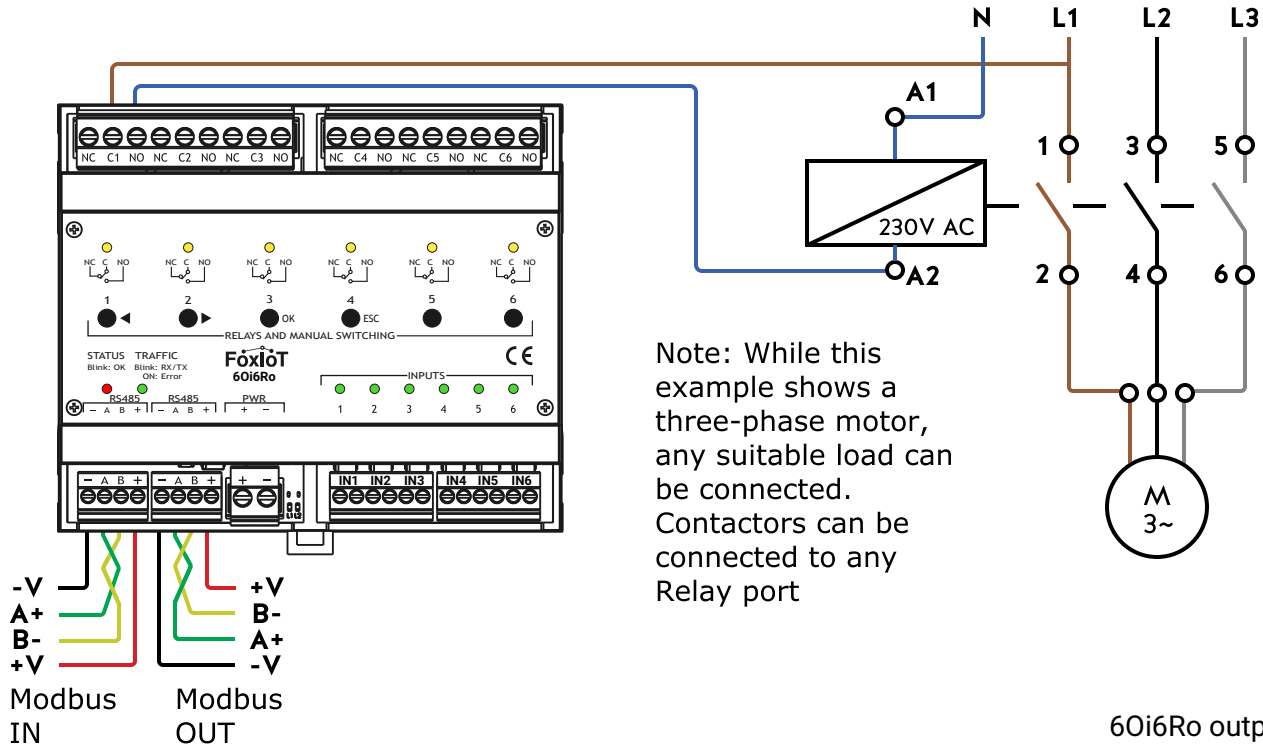


Note: Motors can be connected to any Relay port

Caution: Motors are inductive loads and can cause high inrush currents, especially during startup. Ensure the relay can handle the inductive load and inrush current.

60i6Ro output connections

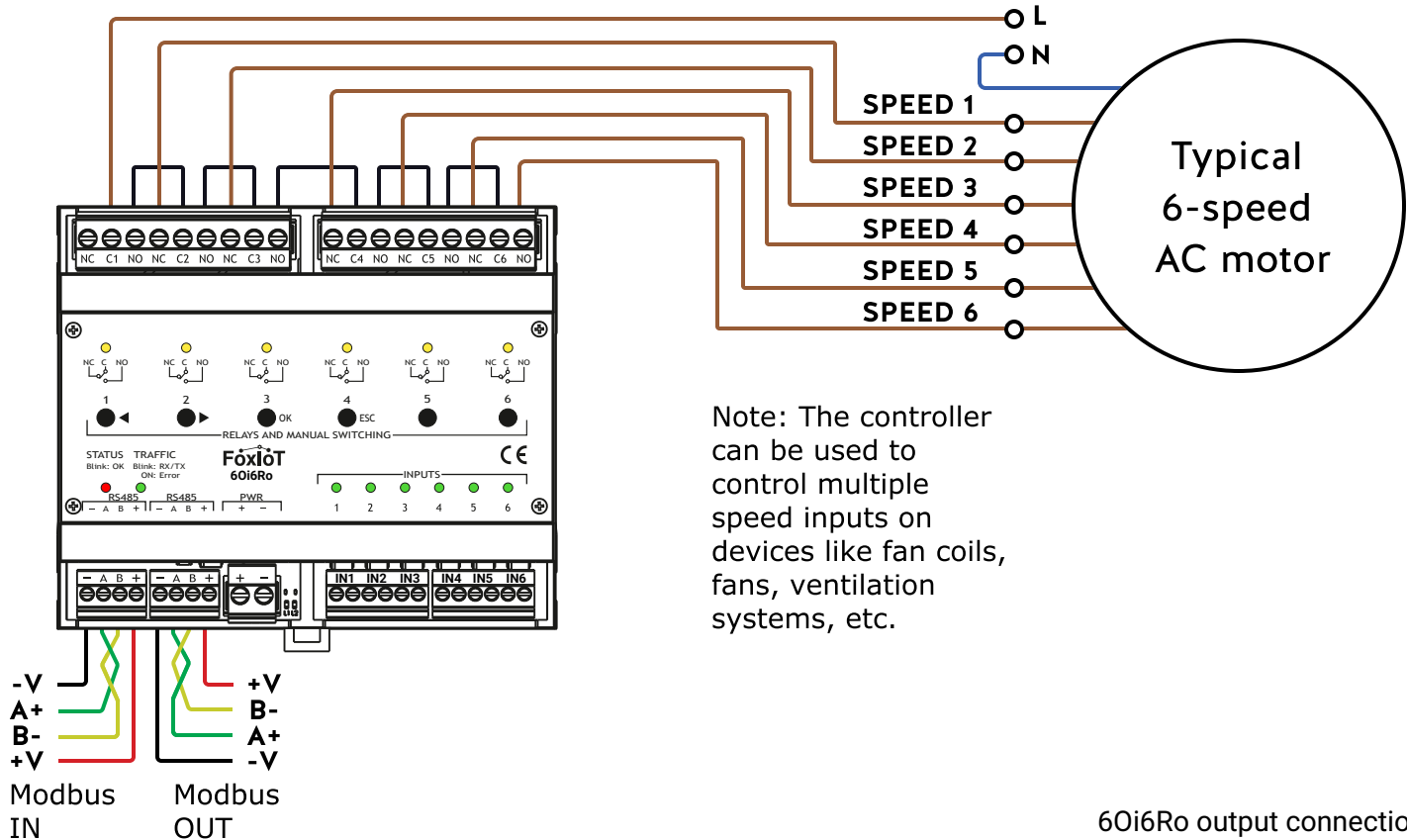
Connecting a Contactor with 230V AC coil to Controller Output



Note: While this example shows a three-phase motor, any suitable load can be connected. Contactors can be connected to any Relay port

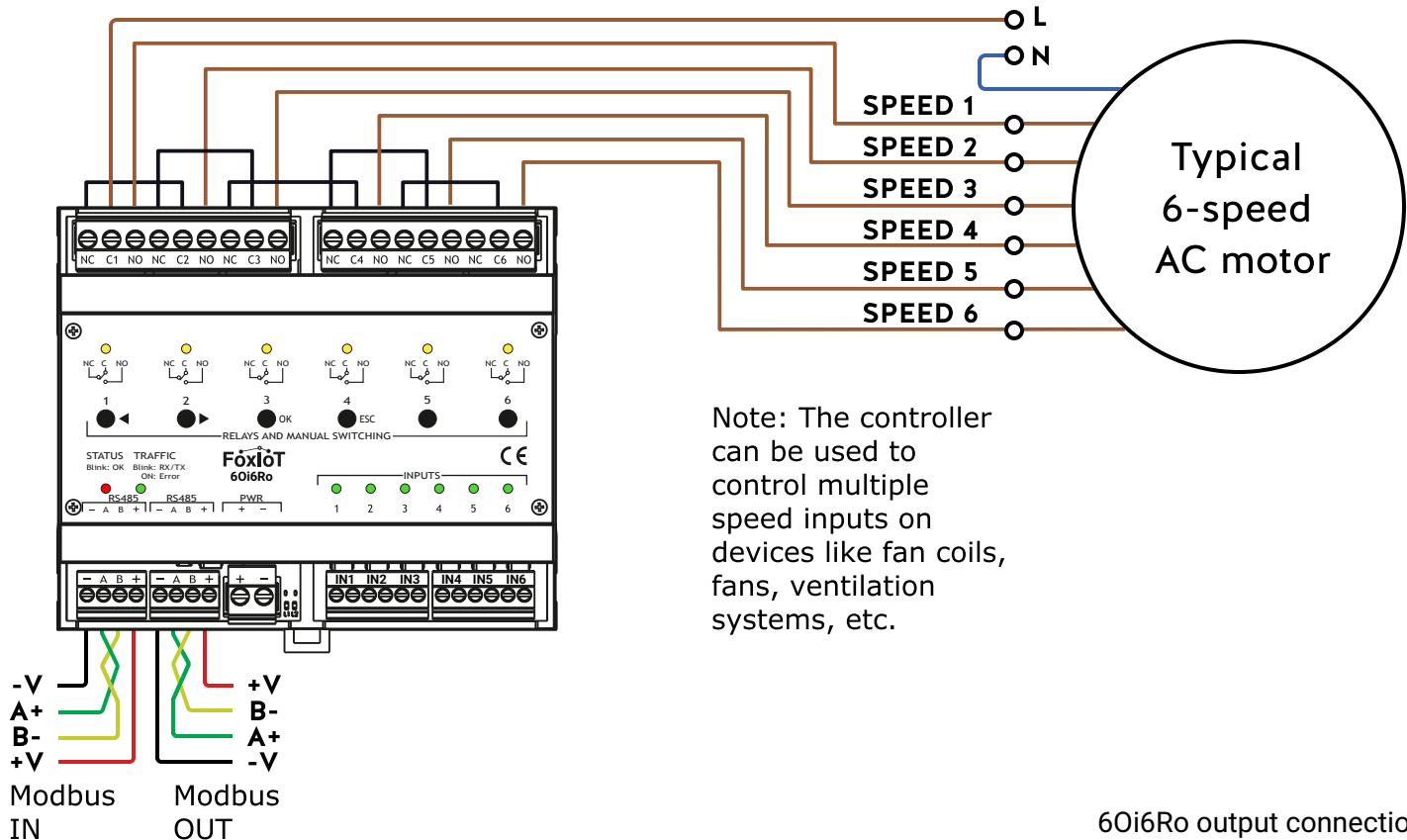
60i6Ro output connections

Connecting Multi-Speed AC Motors (up to 6 speeds) with Cascading Relay Logic to Controller Output



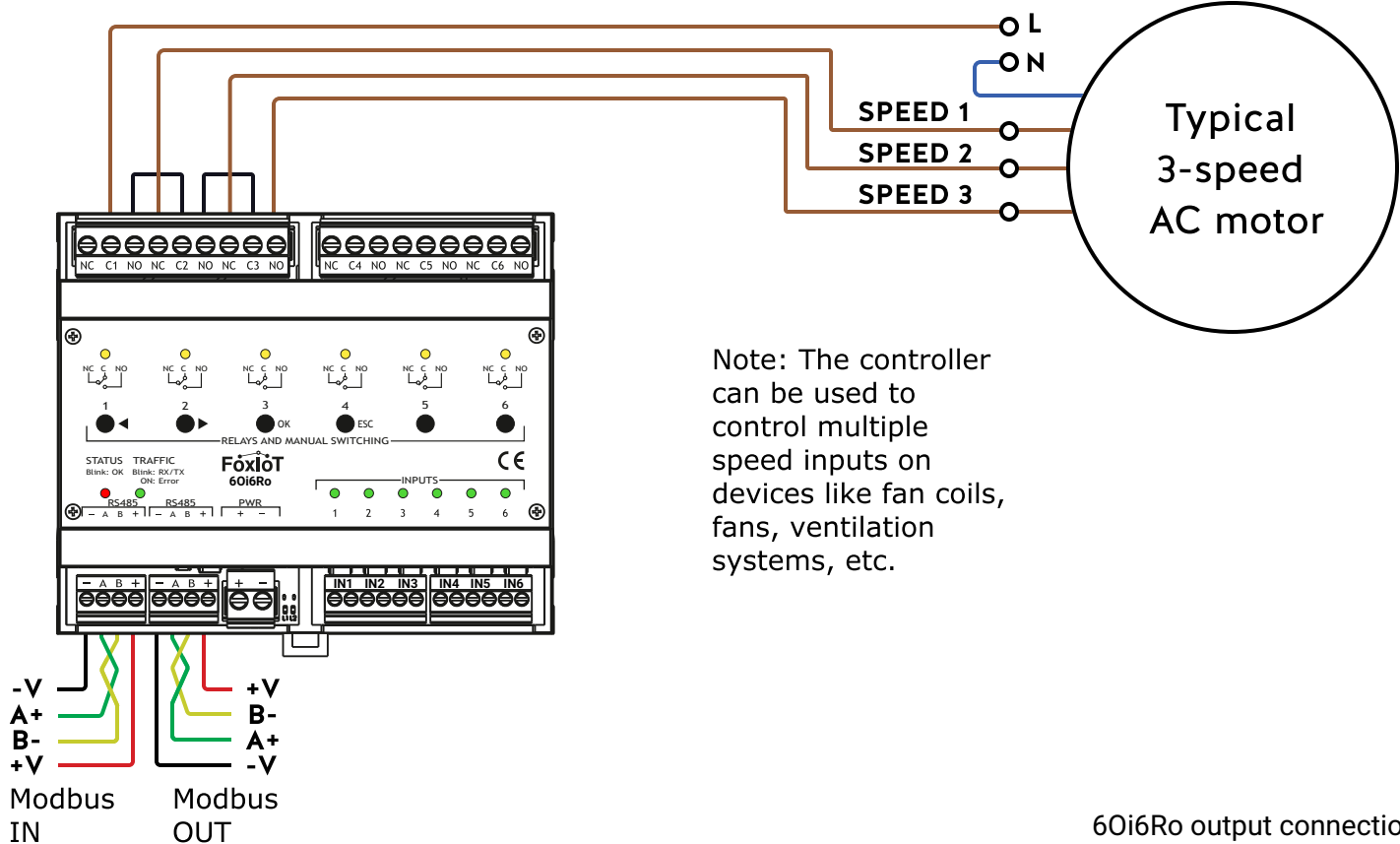
60i6Ro output connections

Connecting Multi-Speed AC Motors (up to 6 speeds) with Direct Relay Mapping to Controller Output



60i6Ro output connections

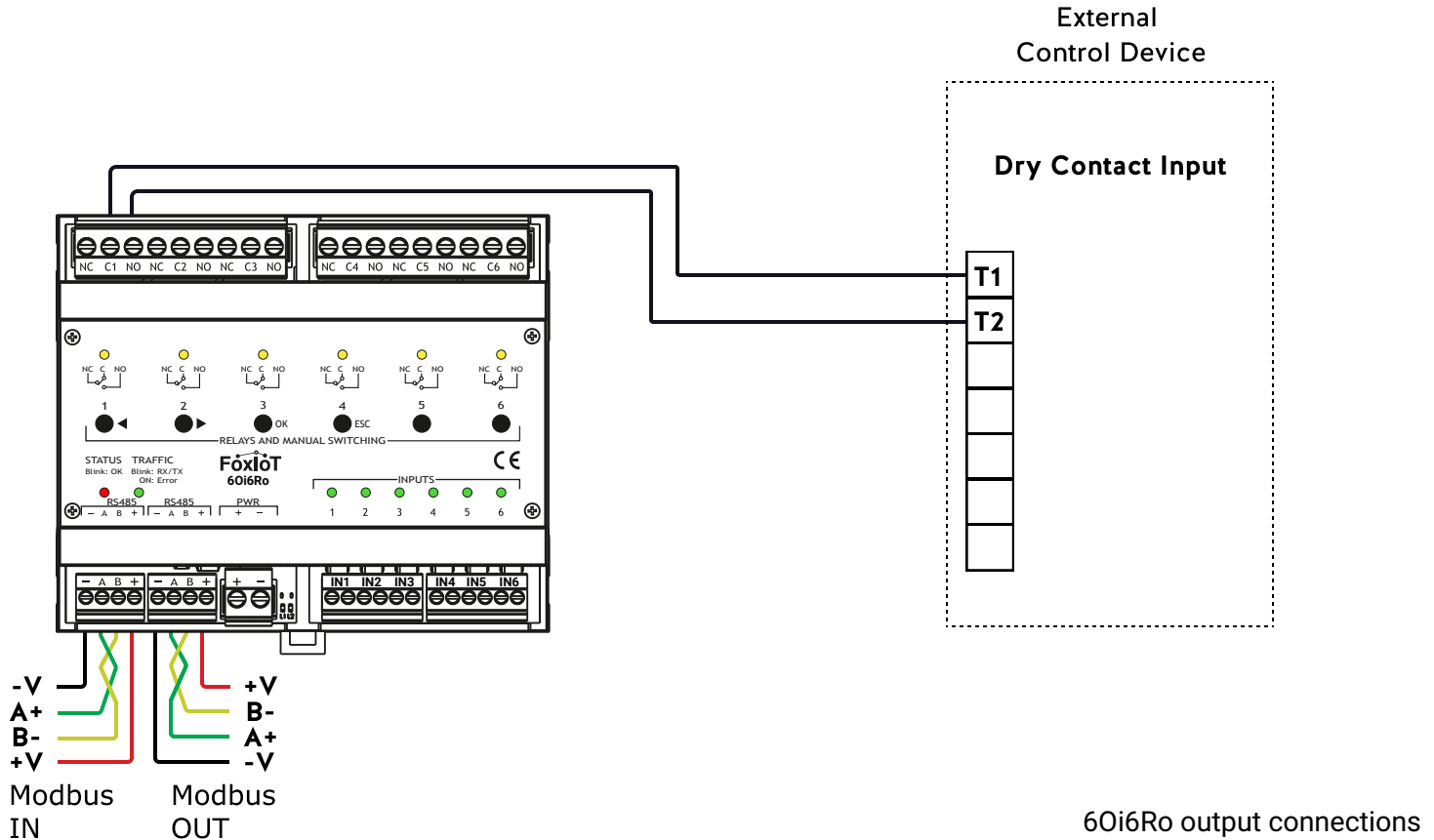
Connecting Multi-Speed AC Motors (3 speed) for Various Applications to Controller Output



Note: The controller can be used to control multiple speed inputs on devices like fan coils, fans, ventilation systems, etc.

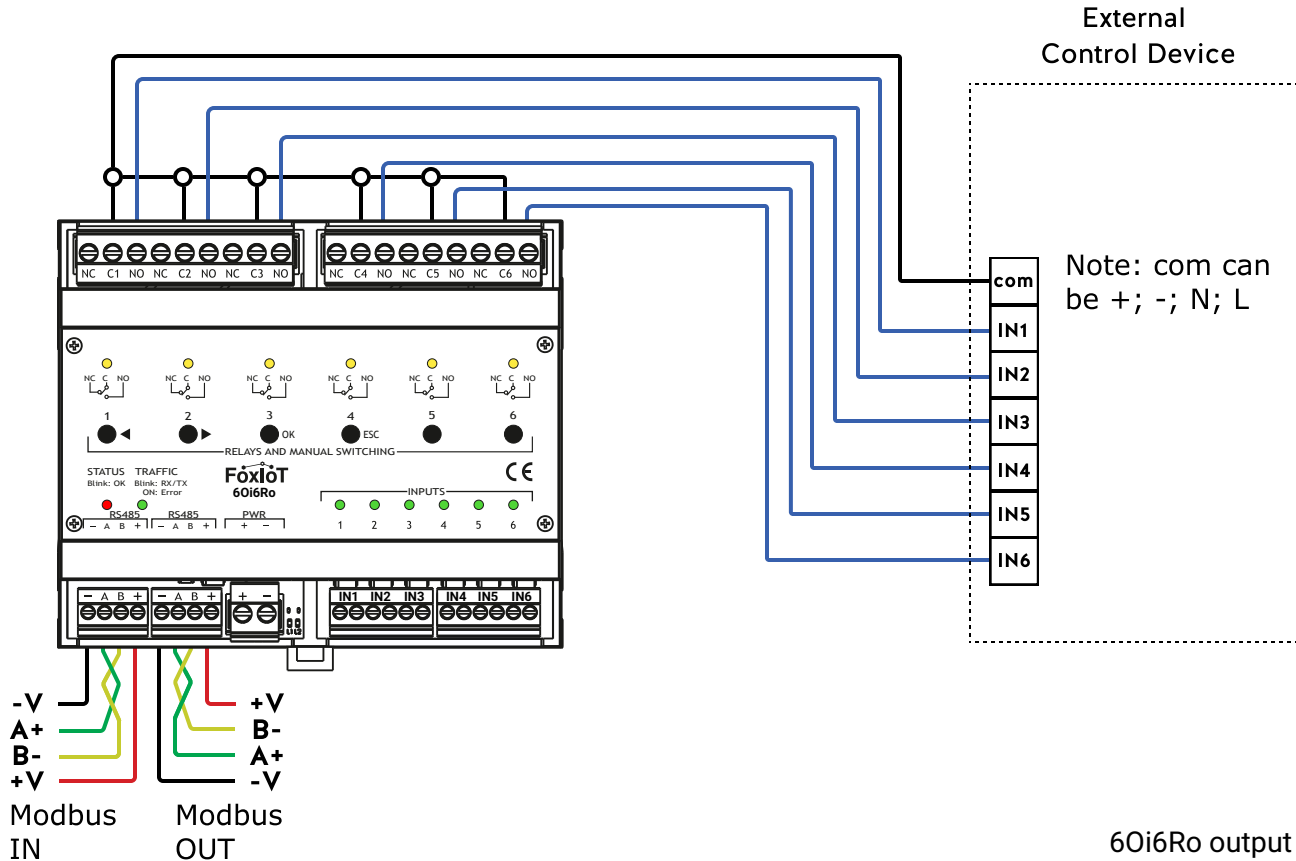
60i6Ro output connections

Connecting External Automation System Inputs to Controller Outputs 1/2



60i6Ro output connections

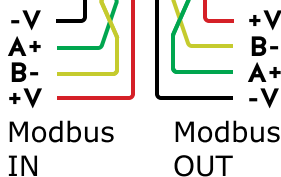
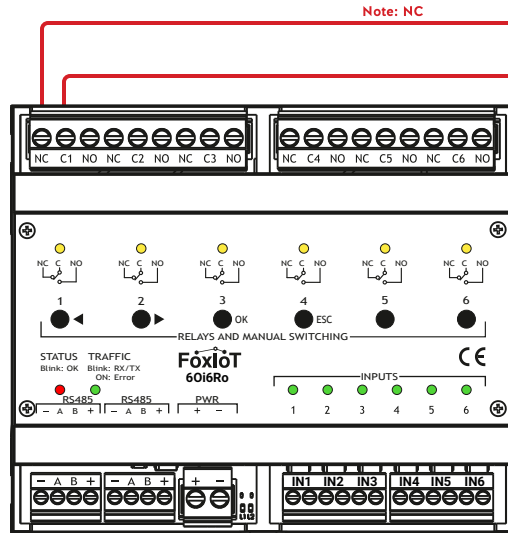
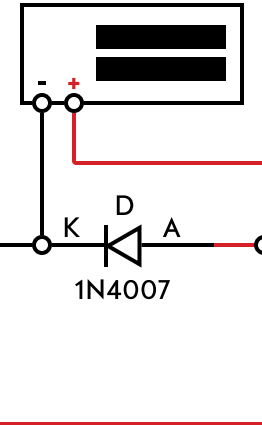
Connecting External Automation System Inputs to Controller Outputs 2/2



Connecting Electromagnetic Locks and Electromagnetic Door Closers to Controller Outputs

Note: Locks can be connected to any relay port

Note: Select the power supply voltage based on the magnetic lock operating voltage.



Note: To protect the relay from damage caused by voltage spikes when switching an electromagnet, place a diode across the electromagnet terminals.

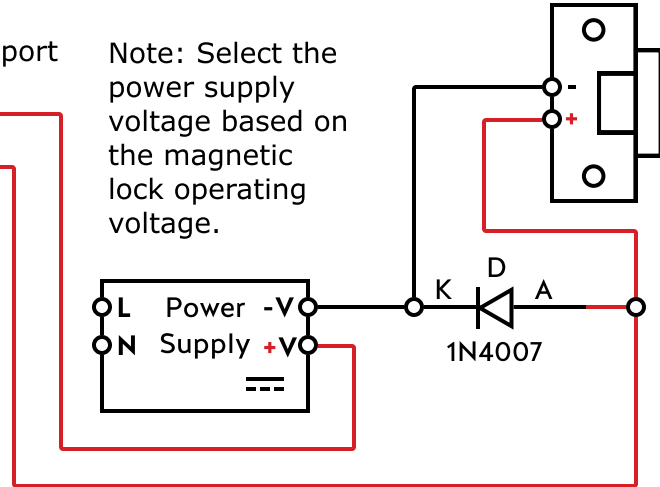
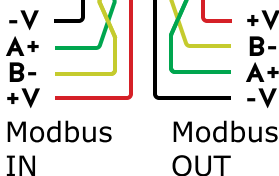
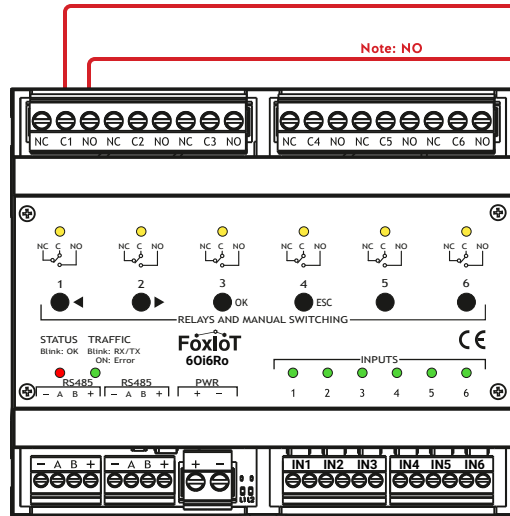
Note: Door status - power on

60i6Ro output connections

Connecting Electric Strikes and Solenoid Door Locks to Controller Outputs for Secure Access Control

Note: Locks can be connected to any relay port

Note: Select the power supply voltage based on the magnetic lock operating voltage.

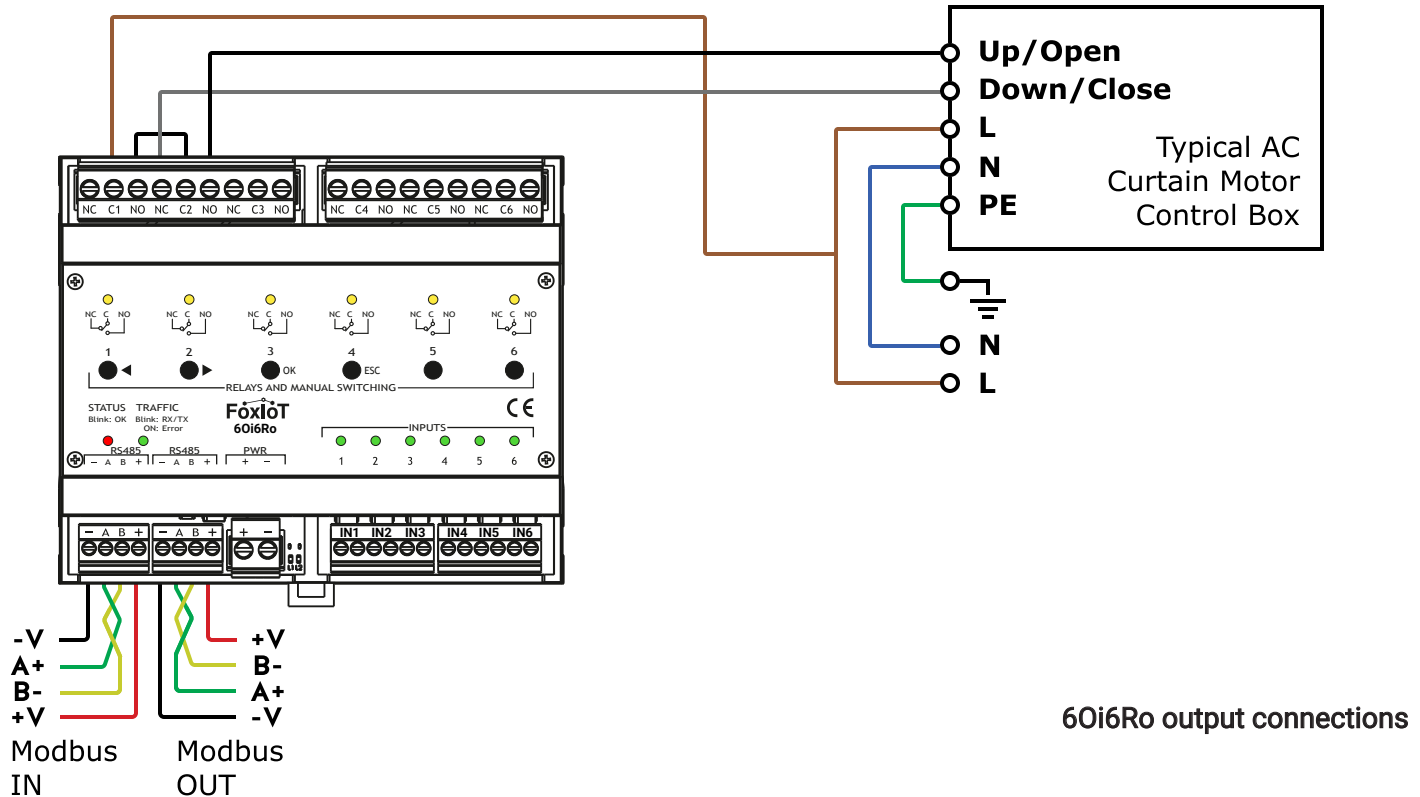


Note: To protect the relay from damage caused by voltage spikes when switching an electromagnet, place a diode across the electromagnet terminals.

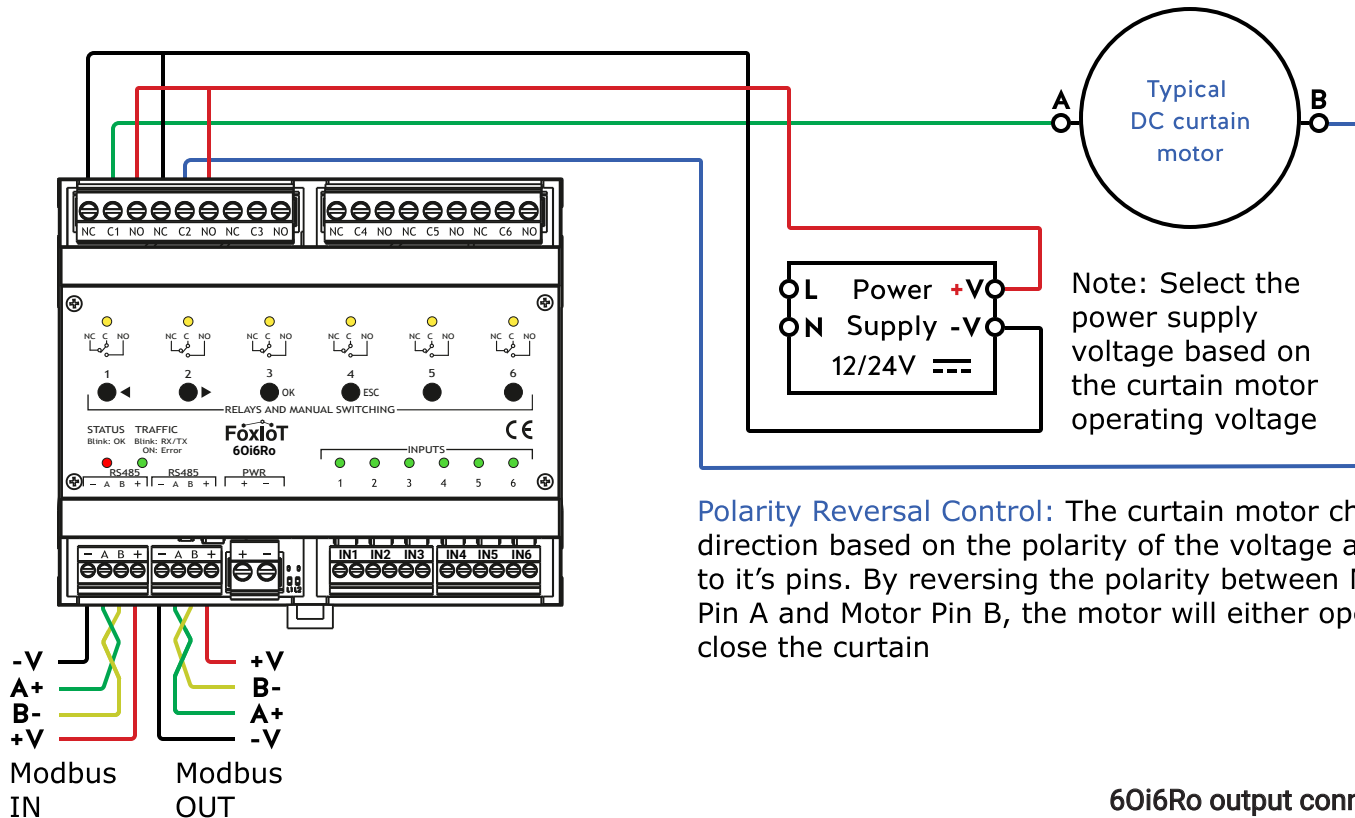
Note: Locked status - power off

60i6Ro output connections

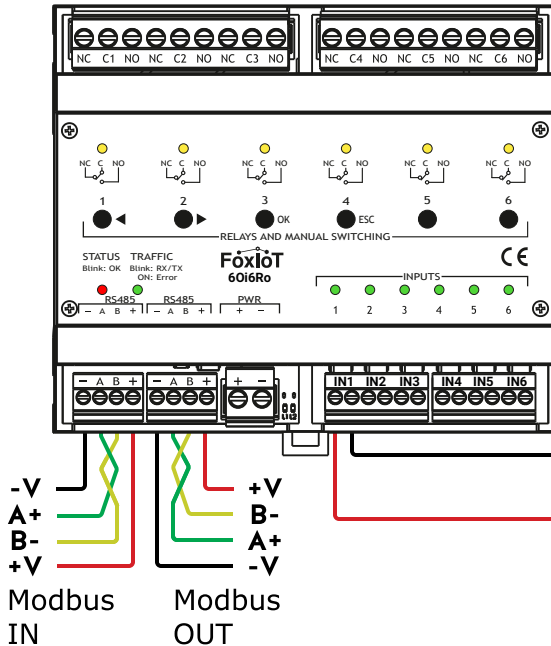
Connecting AC Curtain Motors to Controller Outputs



Connecting DC Curtain Motors to Controller Outputs

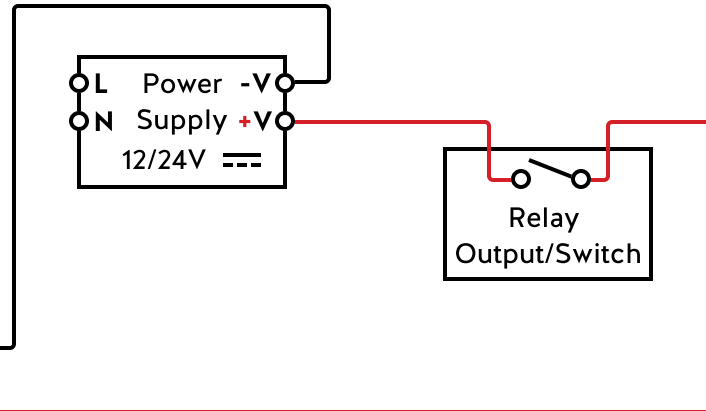


Connecting a Switch or Relay



Note: The Relay and/or Switch can be connected to any input port.

Note: Input works with any polarity due to bidirectional optocoupler.



60i6Ro input connections