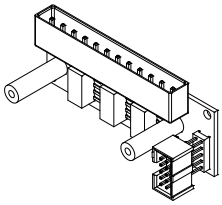
4-COMREL Common Relay Module Installation Sheet



Description

The 4-COMREL provides common alarm, common trouble, and common supervisory relay outputs. It also provides connections for end-of-line resistors.

Installation

WARNING: Electrocution hazard. To avoid personal injury or death from electrocution, remove all sources of power and allow stored energy to discharge before installing or removing equipment.

Caution: Equipment damage. Circuit boards are sensitive to electrostatic discharge (ESD). To avoid damage, follow ESD handling procedures.

To install the device:

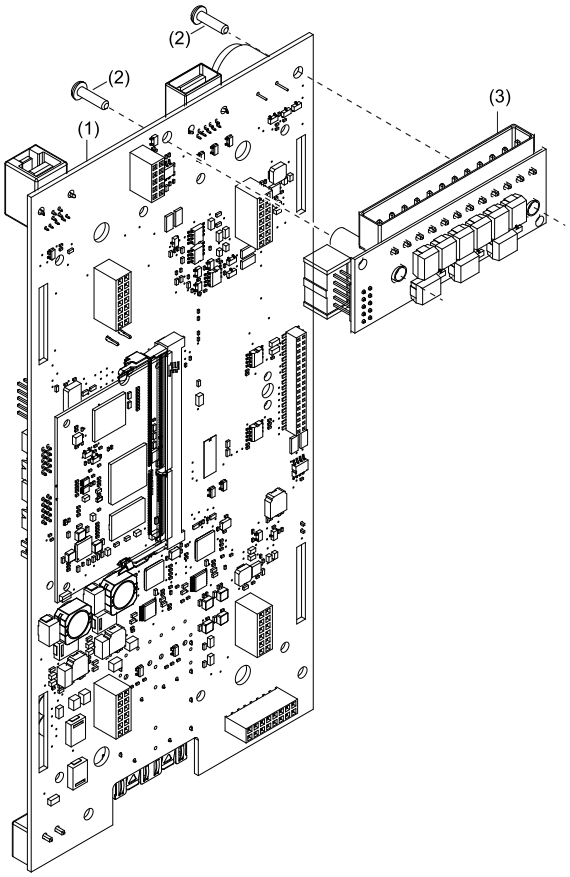
1. Position the 4-COMREL on the back side of the 4-CPU as shown in Figure 1, and then gently insert the pins on the 4-COMREL into the connector on the 4-CPU.
2. Secure the 4-COMREL using included hardware.

Wiring

Notes

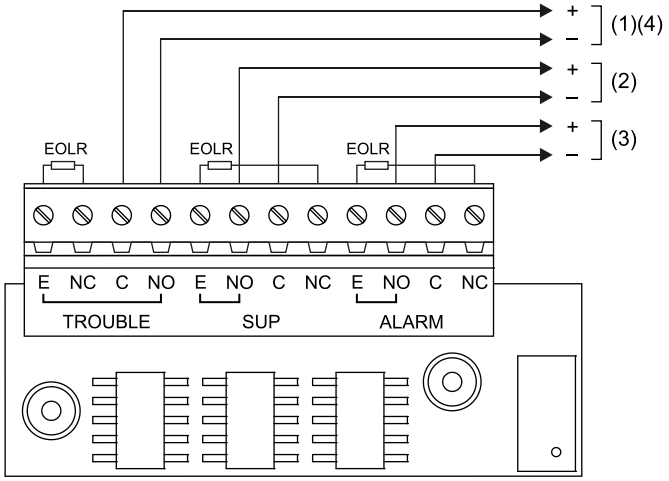
- Common relay wiring is unsupervised and power-limited. Do not connect nonpower-limited wiring.
- For common relay wiring, the end-of-line resistor (EOLR) is determined by the initiating device circuit requirements.
- Maintain 0.25 in. (6 mm) separation between power-limited and nonpower-limited wiring at all times.
- The common trouble relay operation does not include AC trouble delay functionality and cannot be used for reporting troubles off premises.

Figure 1: Installation



(1) 4-CPU
(2) 6-32 x 0.625 screw (2X)
(3) 4-COMREL

Figure 2: 4-COMREL wiring



(1) To external trouble input circuit
(2) To external supervisory input circuit
(3) To external alarm input circuit
(4) Shown in the powered state (trouble contact is energized at system startup)

© 2023 Carrier

P/N 3102284-EN • REV 002 • ISS 12JAN23

Specifications

Common relays	
Current	
Standby	0 mA at 24 VDC
Alarm/active	8 mA at 24 VDC
Quantity	3 (alarm, supervisory, trouble)
Type	Form C
Rating	30 VDC at 1.0 A, 1.0 PF
Wiring	Class E
Wire size	12 to 18 AWG (4.0 to 1.0 mm²)
Operating environment	
Temperature	32 to 120°F (00 to 49°C)
Relative humidity	0 to 93% noncondensing

Regulatory information

Note: For other regulatory information, refer to *EST4 European Marketplace Manual* (P/N 3102838).

FCC compliance	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.
Environmental class	UL/ULC: Indoor dry IEC: 3K5

Contact information

For contact information, see www.edwardsfiresafety.com.