

Installation Instructions

Model RNI

Remote Network Interface (500-034070 / S24235-A115-A1)

INTRODUCTION

The **SIEMENS** Model RNI allows for the remote installation of the PMI-REM (on HNET) and the LVM/LCM-8/SCM-8/FCM-6/SIM-16/OCM-16 (on CAN) modules (not in CE applications). When used in a REMBOX 4, the FMT is also supported (not in CE applications).

The HNET can be wired either Style 4 or Style 7. The CAN network may only be wired Style 4. The RNI may be placed in the middle or at the end of either the HNET or CAN networks. A 24VDC input is also required. This can be obtained from the PSC-12 power limited output (TB3) or any regulated, power limited power supply listed for fire protective signaling use. Audio signals for the LVM and FMT are connected to TB1 of the PSC-12.

The RNI mounts in the rear of either the REMBOX2 or REMBOX4 enclosures. In CE applications The RNI mounts in an enclosure on mounting platte MP-OM. The RNI provides terminal blocks for all field wiring connections. Internal connections are made to plug in connectors specifically provided for each of the installed modules.

The HNET and the CAN networks can be used simultaneously.

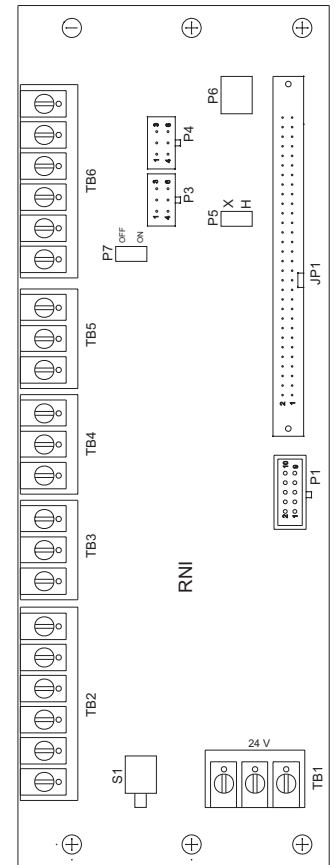


Figure 1
RNI Remote Network Interface

PRE-INSTALLATION

P7 enables or disables an audible device similar to the CSB. This audible sounds whenever a switch is pressed on either the SCM-8 or the FCM-6. If this is not desired the audible can be silenced by changing the jumper installed on P7 to positions 2 and 3. P7 is configured in the factory (positions 1 and 2) to have the audible active.

S1 is used to terminate the HNET. If the RNI is installed at the end of an HNET network S1 must be set to the ON position. If the RNI is in the middle of the HNET set S1 to the OFF position.

P5 must be set to the HNET (H) position.

INSTALLATION



Disconnect BATTERY and AC prior to working on equipment.

The RNI mounts on studs in the rear of either the REMBOX2 or the REMBOX4. Four #8/32 nuts are provided with the RNI. (Refer to the REMBOX2/REMBOX4 Installation Instructions, P/N 315-033772.) Install the RNI with the terminal blocks facing up to allow for easier connection of the field wiring.

Connecting The PMI-REM

A 24 inch long 60 wire cable, P/N 555-133998 (shipped with the PMI-REM), connects the RNI to the PMI-REM. Connect one end of the cable to JP1 on the RNI and the other end of the cable to JP3 on the PMI-REM. Be sure that the PMI-REM address agrees with the ZEUS configuration. Refer to the PMI-REM Installation Instructions, P/N 315-033070 (not in CE applications).

NOTES:

1. 18 AWG (1.0mm²)min.
2. 2A max. input current.
3. Supervised
4. Refer to PSC-12/PSX-12 Installation Instructions, P/N 315-033060 or PSC-12C Installation Instructions A24205-A334-B798 for connection to TB3.

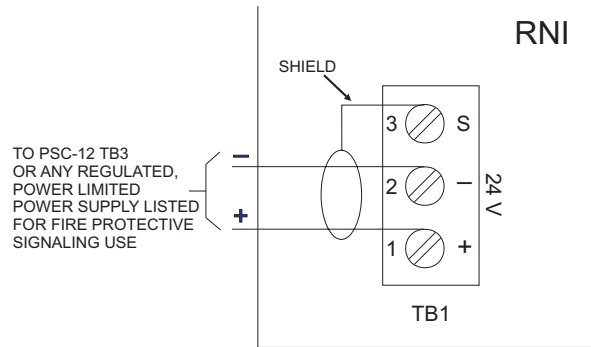


Figure 2
Connecting The 24VDC Input

NOTES:

1. No EOLR required.
2. 24 AWG (\varnothing 0.5mm) min., 12 AWG (4mm²) max.
3. 80 ohms max. per pair.
4. Use twisted pair or twisted shielded pair.
5. Power limited to NFPA 70 per NEC 760.
6. Refer to NIC-C Installation Instructions, P/N 315-033240 / A24205-A334-B824 for connection of A and B pairs.
7. Omit B pair for Style 4.
8. All wiring supervised.

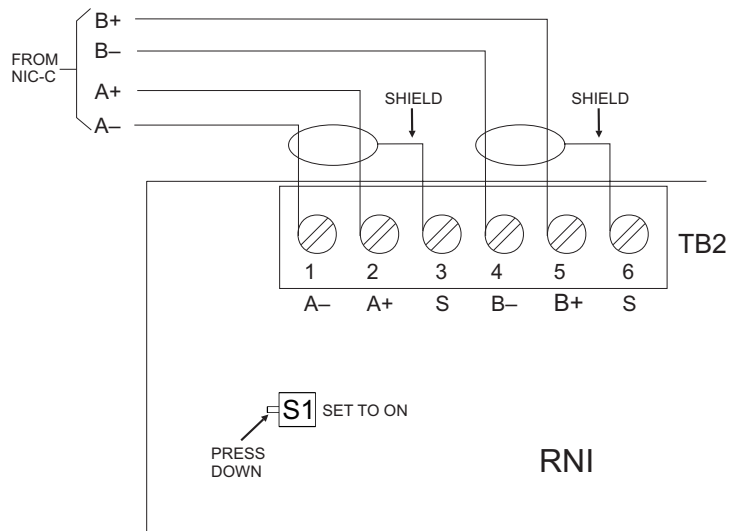
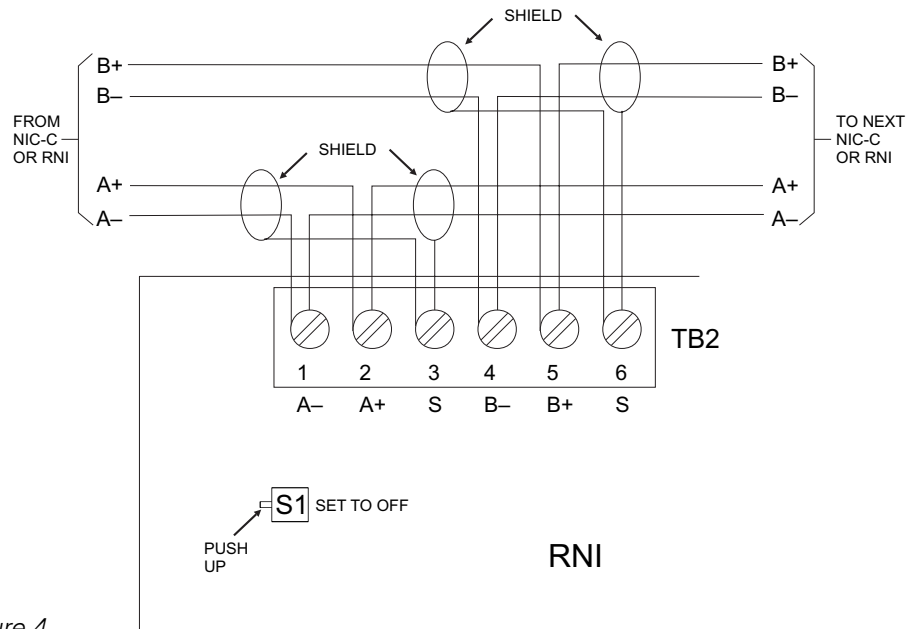


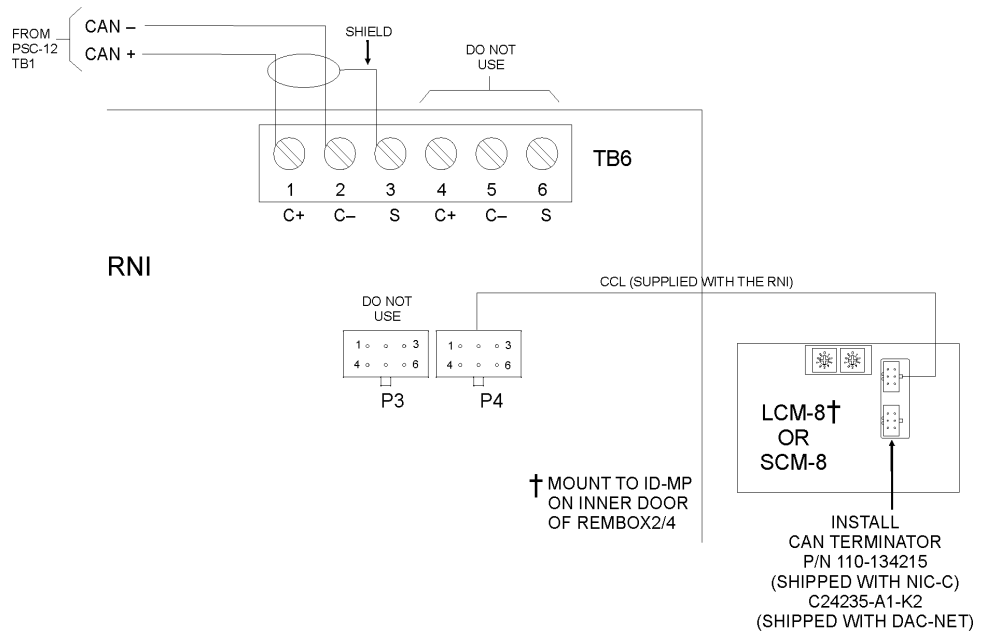
Figure 3
Connecting HNET At The End Of The Network (Style 4 and Style 7)



NOTES:

1. No EOLR required.
2. 24 AWG (Ø 0.5mm) min., 12 AWG (4mm²) max.
3. 80 ohms max. per pair.
4. Use twisted pair or twisted shielded pair.
5. Power limited to NFPA 70 per NEC 760.
6. Refer to NIC-C Installation Instructions, P/N 315-033240 / A24205-A334-B824 for connection of A and B pairs.
7. Omit B pair for Style 4.
8. All wiring supervised.

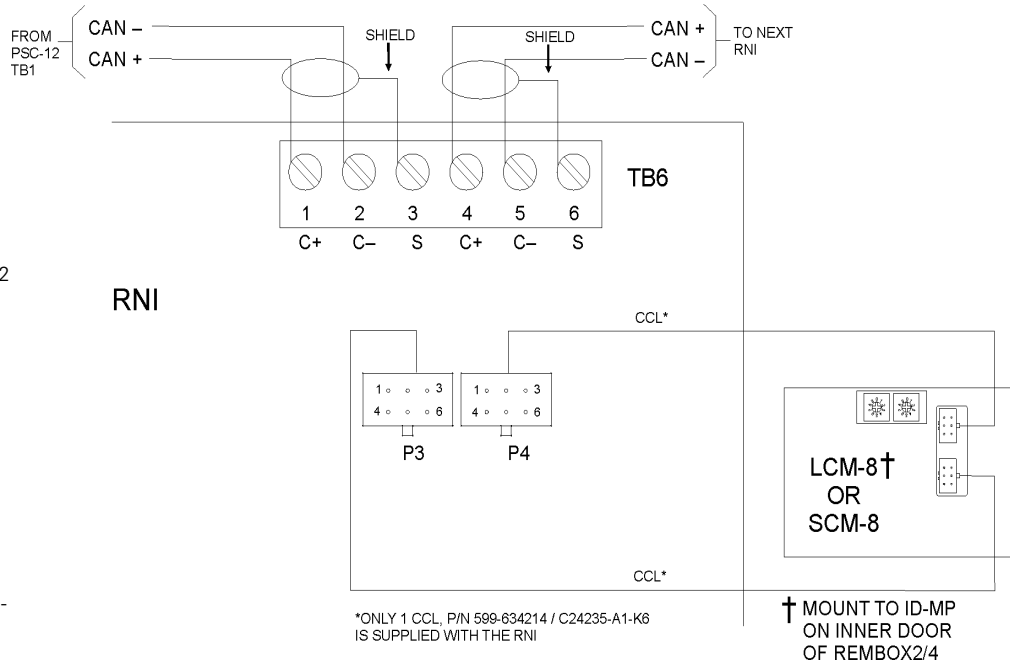
Figure 4
Connecting HNET In The Middle Of The Network (Style 4 and Style 7)



NOTES:

1. 24 AWG (Ø 0.5mm) min., 12 AWG (4mm²) max.
2. 15 ohms max. for CAN network.
3. Use twisted pair or twisted shielded pair.
4. Power limited to NFPA 70 per NEC 760.
5. Refer to NIC-C Installation Instructions, P/N 315-033240 / A24205-A334-B824 for connection of CAN-, CAN+.
6. Only 1 SCM-8 shown. SCM-8, LCM-8, FCM-6, OCM-16, SIM-16 all allowed.
7. All field wiring supervised.

Figure 6
Connecting CAN At The End Of The Network



NOTES:

1. 24 AWG (Ø 0.5mm) min., 12 AWG (4mm²) max.
2. 15 ohms max. for CAN network.
3. Use twisted pair or twisted shielded pair.
4. Power limited to NFPA 70 per NEC 760.
5. Refer to NIC-C Installation Instructions, P/N 315-033240 / A24205-A334-B824 for connection of CAN-, CAN+.
6. Only 1 SCM-8 shown. SCM-8, LCM-8, FCM-6, OCM-16, SIM-16 all allowed.
7. All field wiring supervised.

Figure 7
Connecting CAN In The Middle Of The Network

NOTES:

1. 24 AWG (Ø 0.5mm) min., 12 AWG (4mm²) max.
2. 15 ohms max. per pair.
3. Use twisted shielded pair for LVM microphone and monitor speaker.
4. Use twisted pair or twisted shielded pair for phone.
5. Power limited to NFPA 70 per NEC 760.
6. Microphone and phone circuits are supervised.
7. Monitor speaker is NOT supervised.
8. Refer to LVM Installation Instructions, P/N 315-034090 / A24205-A334-B811.
9. Refer to FMT Installation Instructions, P/N 315-034100 / A24205-A334-B809.
10. No End Of Line devices required.

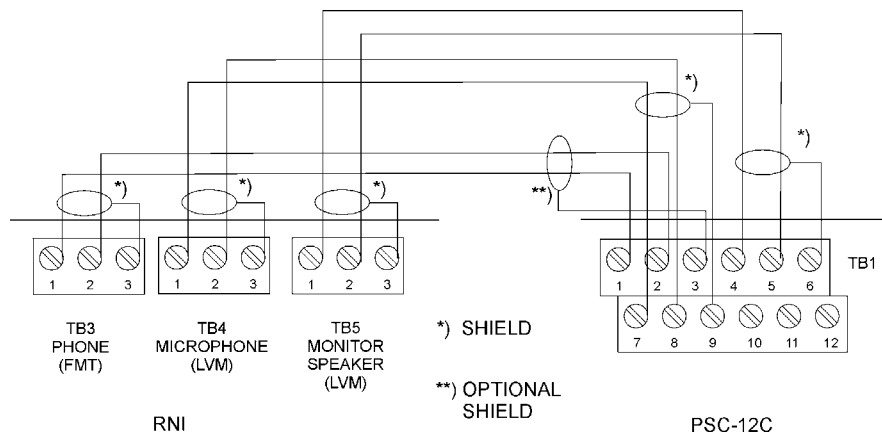


Figure 8
Connecting the LVM and FMT

Connecting The Optional HTSW-1 Tamper Switch

Connect the HTSW-1 (required for UL1076) to P6 on the RNI using the connector supplied with HTSW-1. Refer to the REMBOX Installation Instructions, P/N 315-033772 and the HTSW-1 Installation Instructions, P/N 315-033350 (not in CE applications).

Connecting The LCM/SCM/FCM

Mount the LCM/SCM/FCM to the ID-MP (Refer to the LCM/SCM/FCM Installation Instructions, P/N 315-033040 / A24205-A334-B812). Mount the ID-MP to the inner door of the REMBOX2/4.

LVM and FMT Connecting The

The 10-conductor audio cable (shipped with the LVM and FMT) connects to P1 on the RNI. If both an LVM and FMT are installed, connect the FMT to the LVM, then connect the LVM to the RNI. If a PMI is installed, the LVM audio cable can be connected to JP6 on the PMI.

POST-INSTALLATION

Before applying power to the RNI check the following:

- Ensure that the 24VDC power input on TB1 is connected and that the polarity is correct.
- Check the setting of S1. If the RNI is at the end of the HNET it must be set to on. If the RNI is in the middle of the HNET it must be set to off. If the HNET is not used the position of S1 does not matter.
- Check the position of P5. It must be set to H.
- Check the CAN termination. If the RNI is at the end of the CAN network, a CAN terminator (P/N110-134215 / C24235-A1-K2, supplied with the NIC-C) must be installed into the last CAN module in the REMBOX.
If the RNI is in the middle of the CAN network no CAN terminators can be installed. If CAN is not used then the terminator can be stored in P4. It will be needed if CAN modules are added to the REMBOX at a later time. Refer to the NIC-C Installation Instructions P/N 315-033240 / A24205-A334-B824 for examples of CAN installation and termination.
- Check the setting of P7. If the local sound is required, make sure P7 is set to ON. Otherwise, set it to OFF.

COMPATIBILITY

The RNI is compatible with the FireFinder XLS and E100 HNET and CAN networks only. The RNI can not be used with the MXL MNET.

ELECTRICAL RATINGS

24V Back Plane Current	75mA Max.*
Screw Terminal 24V Current	0
6.2V Back Plane Current	0
24V Standby Current	75mA Max.*
*RNI current only. Be sure to include the 24VDC screw terminal current for all other HNET and CAN modules when performing power supply loading calculations or battery calculations.	

For CE applications in E100 systems refer to
Installation Instruction A24205-A334-B844 (English) or A24205-A334-A844 (German)

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