Mircom

[445mm] 17 ½ "
[103mm] 4 1/16 "
[604mm] 23 ¾ "

[17mm] 5/8 "
[305mm] 12 "
[86mm] 3 3/8 "
[418mm] 16 7/16 "
[564mm] 22 3/16 "
[476mm] 18 ¾ "
[222mm] 8 ¾ "
[305mm] 12 "
[70mm] 2 ¾ "

Mircom

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For more details, see LT-996 and LT-969 on the Mircom website and the USB flash.
Mircom technical support: 1-888-647-2665

1 Mount the Enclosure

The enclosure mounts on the wall. Mount the enclosure right-side up (the Mircom logo on the door is in the lower right corner).
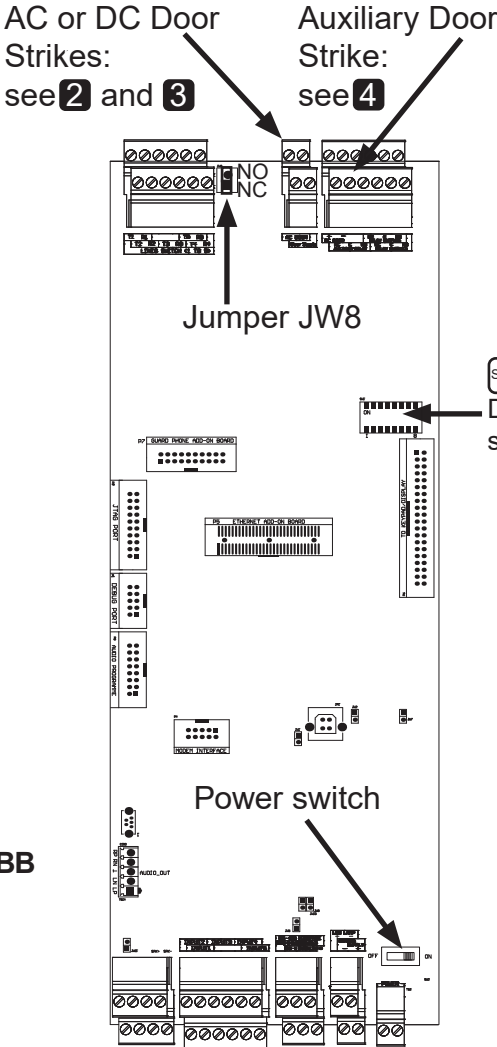
You need:
4 fasteners appropriate for the wall that you are mounting the enclosure on.
1. Find a suitable location for the enclosure.
2. Mark the back mounting locations of the two top screws. Ensure that at least one screw is over a wall stud.
3. Place the fasteners halfway into the wall in the two top keyhole locations and wall stud.
4. Place the enclosure onto the fasteners, then lower it so that the fasteners fit in the narrow part of the keyholes.
5. Screw the other fasteners into the remaining holes.
6. Tighten all fasteners into place.

To prevent water from entering the unit, use a weather resistant conduit hub.
Mircom recommends using the TX3-TOUCH-WR-BB backbox for mounting Outdoor Touch Screens when the wall does not have in-wall wiring or is uneven. Please refer to LT-6192 and LT-996 for installation instructions.

Installation Prerequisites

- Verify that the building telephone infrastructure is operational. When wiring an NSL installation it may be necessary to check each resident's line.
- Ensure there is a provision for a ground circuit. The Telephone Access System assembly must be grounded by a qualified electrician. An improperly grounded unit can result in equipment malfunction and void the warranty.
- Use the latest Telephone Access System controller firmware. Mircom periodically updates panel firmware and Configurator Software to add features and correct any minor inconsistencies. For information about the latest firmware or software visit the 'Manuals and Downloads' section of the Mircom website at **www.mircom.com**

AC or DC Door Strikes: see **2** and **3**

Auxiliary Door Strike: see **4**

Jumper JW8

SW1 DIP Switches: see **5**

Power switch

Warning: Turn the power off before wiring

Install all power supplies outside the enclosure.

Wiring Requirements
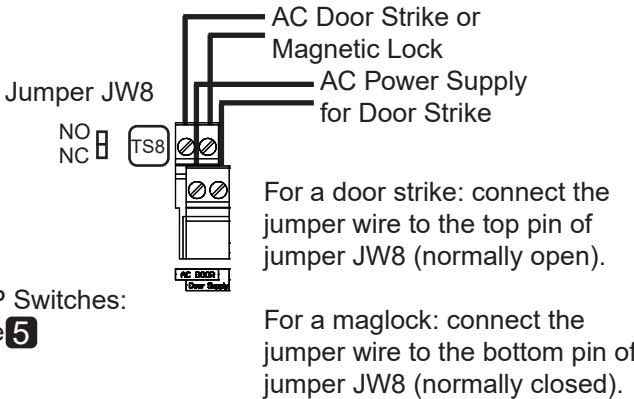Unless specified otherwise, all wiring is a maximum length of 1000 ft (304.8 m).

RS-485: Maximum total length: 4000 ft (1219.2 m) Use twisted shielded pair.

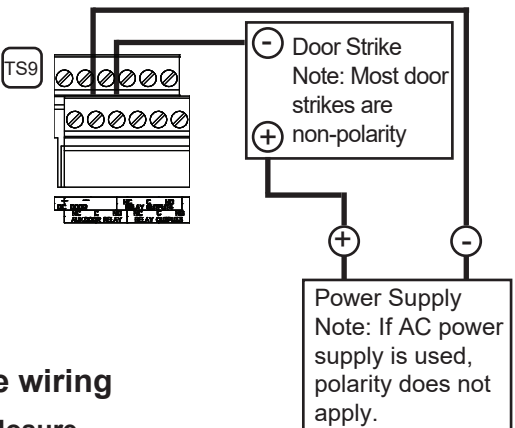**Door Strike:** The door strike power supply depends on the door strike power requirements.

Maximum Power Supply Wire Distances

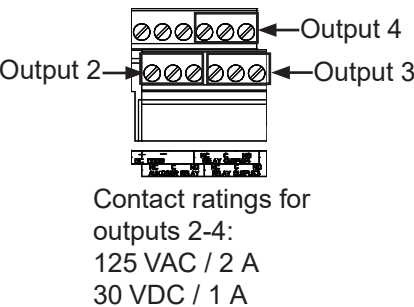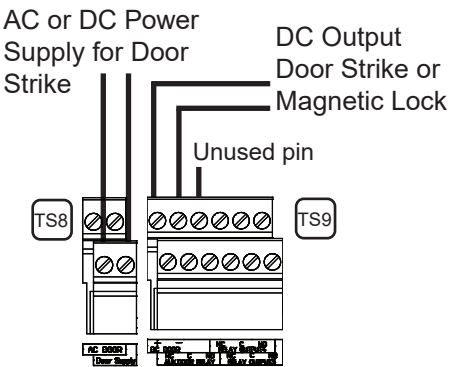| Gauge	Distance
16	125 ft (38.1 m)
14	200 ft (60.96 m)
12	320 ft (97.536 m)
10	500 ft (152.4 m)

2 AC Door Strike or Maglock
18 AWG

AC Door Strike or Magnetic Lock
AC Power Supply for Door Strike

Jumper JW8
NO NC
TS8

For a door strike: connect the jumper wire to the top pin of jumper JW8 (normally open).

For a maglock: connect the jumper wire to the bottom pin of jumper JW8 (normally closed).

4 Auxiliary Door
(Output 2)
18 AWG

TS9
Door Strike
Note: Most door strikes are non-polarity

Power Supply
Note: If AC power supply is used, polarity does not apply.

Outputs 2-4

Output 4
Output 2
Output 3

Contact ratings for outputs 2-4:
125 VAC / 2 A
30 VDC / 1 A

3 DC Door Strike
(Output 1)
18 AWG

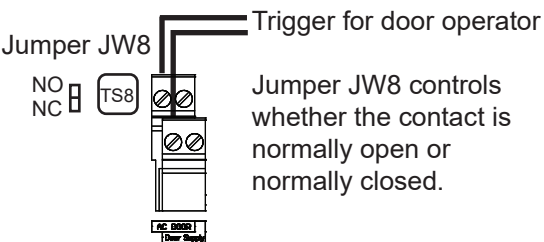AC or DC Power Supply for Door Strike

DC Output Door Strike or Magnetic Lock
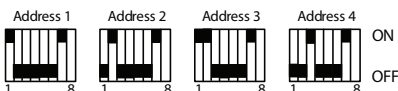
Unused pin

TS8

TS9

The maximum supply for the AC or DC Power Supply for Door Strike must not exceed:

28 VAC / 1 A max
30 VDC / 1 A max

Alternative Wiring for Dry Contact

Trigger for door operator

Jumper JW8
NO NC
TS8

Jumper JW8 controls whether the contact is normally open or normally closed.

5 DIP Switch Settings for RS-485 Address

Address 1 Address 2 Address 3 Address 4
ON
1 8   1 8   1 8   1 8
OFF

Each Touch Screen must have a unique RS-485 address.
Use DIP switches 1-6 to set the RS-485 network address. See LT-969 for details.
Leave DIP switch 7 on.

Warning: Turn the power off before wiring.

Phone Lines: See **7**

P7 Guard Phone board connector

P4 TX3-MDM Modem board connector

USB connector: Connect to computer for firmware upgrade and configuration (maximum length of USB cable: 8 feet/2.4 m)

Postal Lock: see **6**

RS-485: see **9**

6 Postal Lock (Input 1)
Fire Alarm Override (Input 2)
Door Contact (Input 3)
22 AWG

TS5

Postal Lock

Warning: Do not attach the wiring until after the postal lock is installed.

Door Contact

Fire Panel

Activation of this input relocks the main door (Output 1).

Activation of this input unlocks the main and auxiliary doors (Outputs 1 and 2).

For more details, see LT-996 and LT-969 on the Mircom website and the USB flash.
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7 Phone Lines

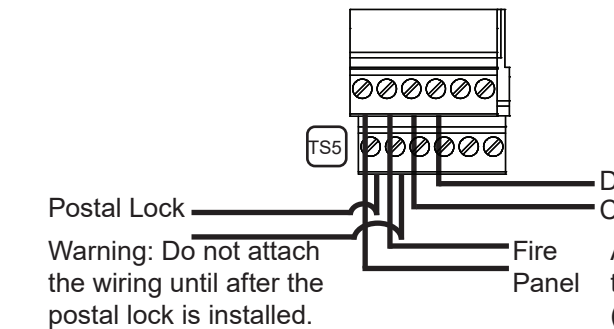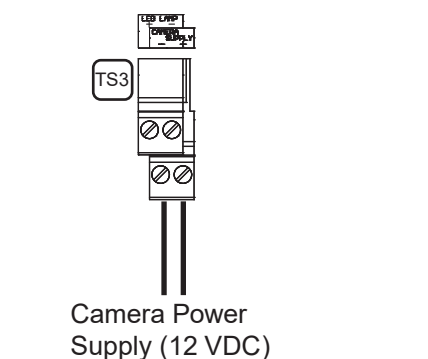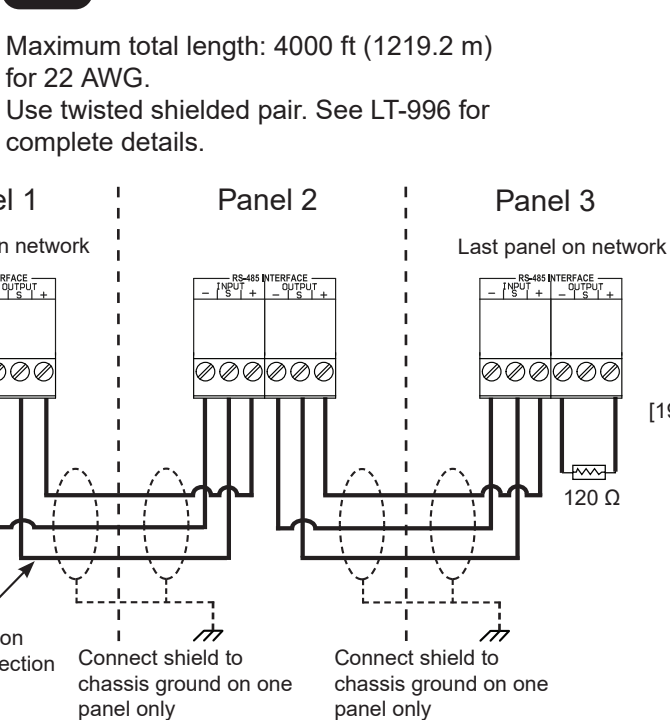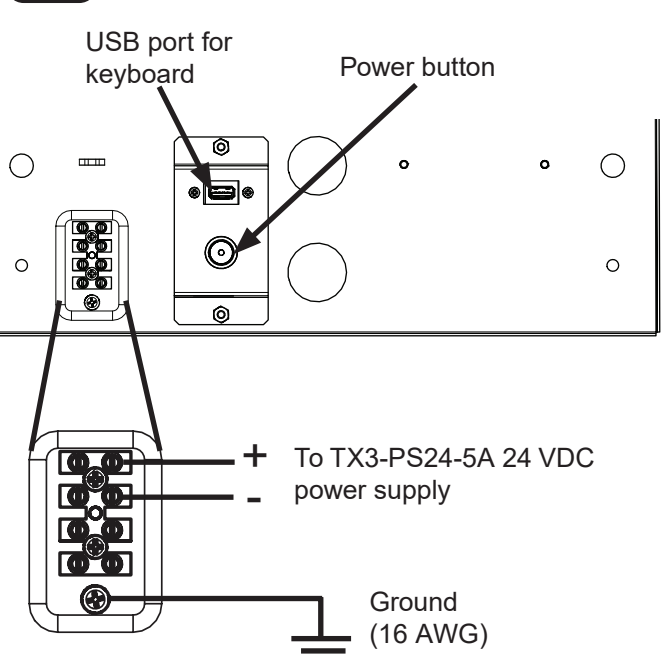Line 1
T R

T Line 2
R (optional)

T1 R1   T8 R8
T2 R2 T3 R3 T4 R4
LINES SWITCH (1 TO 8)

Non-configurable PBX systems are not supported. For more information, contact Mircom technical support at 1-888-647-2665.

8 Camera Supply

Note: Do not use for any other purpose

TS3

Camera Power Supply (12 VDC)

9 RS-485

Maximum total length: 4000 ft (1219.2 m) for 22 AWG.
Use twisted shielded pair. See LT-996 for complete details.

Panel 1
First panel on network

Panel 2

Panel 3
Last panel on network

RS-485 INTERFACE
INPUT   OUTPUT
– S +   – S +

120 Ω   120 Ω

Optional common reference connection if available

Connect shield to chassis ground on one panel only

Connect shield to chassis ground on one panel only

10 Ground and Power

USB port for keyboard

Power button

+ To TX3-PS24-5A 24 VDC power supply
–

Ground (16 AWG)

11 Mount the TX3-PS24-5A 24 VDC, 156 W Power Supply

[250mm] 9 13/16 "
[241mm] 9 1/2 "
[197mm] 7 3/4 "

[191mm] 7 1/2 "
[146mm] 5 3/4 "

[60mm] 2 3/8 "
[46mm] 1 13/16 "

[196mm] 7 3/4 "
[140mm] 5 1/2 "

[23mm] 15/16 "

[11] R 7/16 "
[14] R 9/16 "
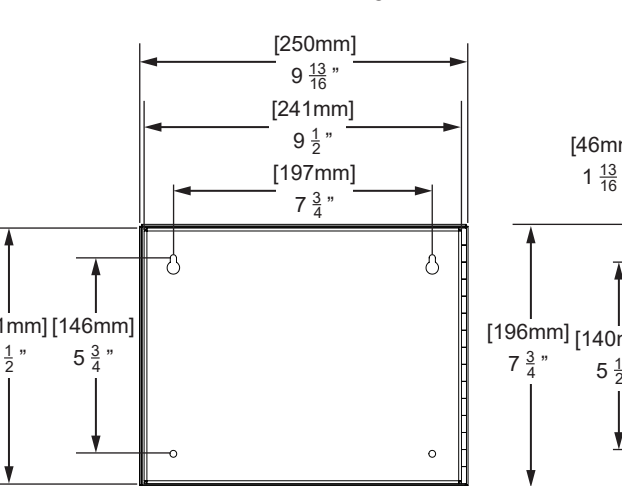
Attention: Install the power supply indoors, and outside the Touch Screen enclosure.

To surface mount the power supply enclosure: You need 4 fasteners appropriate for the wall that you are mounting the enclosure on.

1. Find a suitable location for the power supply enclosure, such as over a wall stud.
2. Using the enclosure as a template, mark the two top mounting hole locations. Ensure that at least one side is over a wall stud.
3. Remove the enclosure and place two wall fasteners halfway into the marked hole locations.
4. Place the enclosure onto the fasteners and lower it so that the fasteners fit in the narrow part of the keyholes.
5. Screw the other two fasteners into the two remaining holes.
6. Tighten all four fasteners into place.

Note: The enclosure can also be mounted directly onto the drywall using anchors.

12 Connect the Power

1. Set the voltage selectable switch on the power supply to the appropriate voltage. The voltage selectable switch can be set to either 115 V or 230 V.
2. Connect the load power supply wires to the Touch Screen terminal screws as shown in step 10.
3. Connect the other end of the load power supply wires to the **Load** terminals.
4. Connect the building power supply wires to the **Line** terminals as shown below.
5. Turn the power on by pressing the power button.

To building power

To Touch Screen

L   N   ⏚   -V -V +V +V   +V ADJ

Line   Load
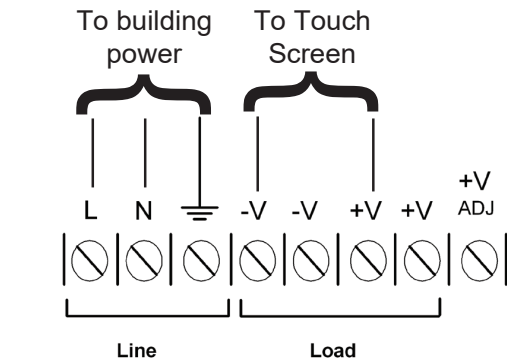
WARNING
To ensure the security of occupants, change the level 3 passcode from its default setting. See LT-995 on mircom.com for details.