Netbell-2-1Bel Installation and Wiring Instructions

Package Contents Checklist

- ☐ Netbell-2 Server (01-910-00014) (1)
- ☐ Bell Kit (01-910-00044) (1)
- ☐ Netbell Setting Instructions
- ☐ This Installation Guide

Installation Steps

Step 1: Mounting the Netbell-2 Controller

1. Choose a dry, indoor location for installation
2. For DIN rail mounting:
   - Attach DIN rail clip (sold separately) to the back of the unit
   - Snap onto 35mm DIN rail
   - Ensure unit is firmly secured
3. For wall mounting:
   - Use appropriate mounting hardware for your wall type
   - Ensure adequate ventilation around the unit

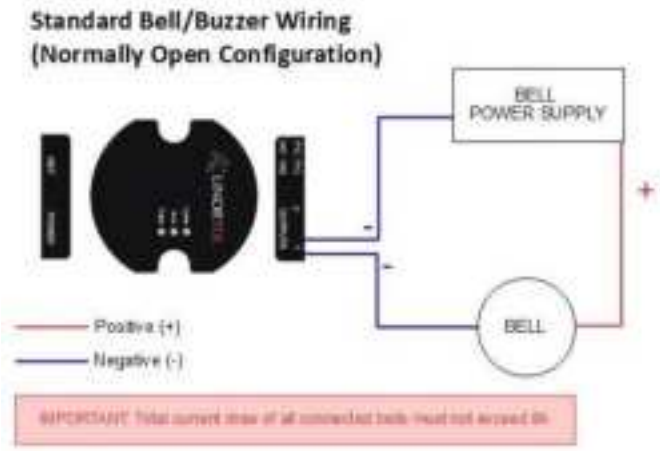
Step 2: Bell Wiring Instructions

Relay Output Specifications:

- Two relay outputs (OUTPUT 1 and OUTPUT 2)
- Dry Contact type (1-Form-A relay)
- Maximum rating: 48VAC @ 8A per relay
- Normally Open (NO) contacts, convertible to NC if needed

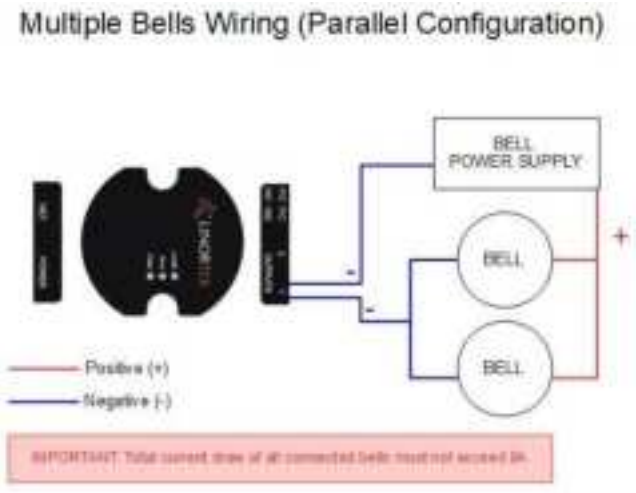
Bell Wiring

1. **Bell Mounting and Cable Requirements:**
   - Mount the pre-wired bell kit at the location you would like to have your bell
   - You can extend the power cable of the bell if needed
   - Bell can be installed at 500 feet away from the controller using 16AWG cable
2. **Basic Wiring Diagram:**
   - Connect positive wire (+, black wire with no white stripe) of the power supply to the positive (+) red wire of the bell.
   - Connect the negative wire (-) of power supply (marked with white stripe) to one of the Netbell-2's relay outputs (OUTPUT 1 or 2)
   - connect the black (-) wire of the bell to the other side terminal of the same relay output
   - Plug the bell power supply into an AC outlet



Netbell-2 Wiring Samples

3. **Multiple Bell Configuration:**
   - Each relay can control devices up to 8A total current
   - You can connect multiple bells to one output if needed
   - Total current draw of all connected bells must not exceed 8A
   - Ensure power supply rating matches total bell current requirements
   - Verify total current draw is within specifications before operation



⚠️ **IMPORTANT NOTES:**

- This device is NOT designed to directly switch line voltage (120V/240V)
- For line voltage devices, an intermediary relay MUST be installed
- Verify all connections before applying power
- You can install the bell at up to 500 ft away from the controller using 16 AWG 2-conductor wire
- Use appropriate wire gauge for current rating.

Step 3: Digital Input Connections (Optional)

The Netbell-2 features two digital inputs that can detect external on/off states of sensors. The most common use of the digital inputs for the Netbell is to connect a push button switch to activate the bell manually for emergency.

- Connect the push button to one of the digital input terminals
- Open the enclosure, put the digital input switch to PU position
- Configure the software

Step 4: Network Connection

1. Plug RJ45 cable into NET port
2. If using PoE (Power over Ethernet):

– Verify switch supports IEEE 802.3af/at

– DO NOT connect 12VDC power supply

3. LED indicators:

– Green LED on Ethernet port: Network connection

– Yellow LED: Network activity

Step 5: Power Connection

Choose ONE power option:

Option A: PoE Power

- Connect Ethernet cable to PoE switch
- Wait for LED indicators
- Do **NOT** use 12VDC power supply

Option B: 12VDC Power

- Plug power supply into AC outlet
- Insert barrel connector into POWER port
- Verify LED indicators

⚠️ **WARNING: NEVER use both PoE and 12VDC power simultaneously**

Step 6: Startup Verification

Check LED status:

1. GREEN LED flashes = Bootload mode (5 seconds)
2. RED LED blinks once per second = Normal operation

Troubleshooting Guide

No Power

1. Check power connections
2. Verify PoE switch compatibility
3. Test with alternate power method

No Network Connection

1. Verify cable connections
2. Check network switch status
3. Confirm LED indicators

Bell Not Working

1. Verify wiring connections, check contact connection. If you use the Wago connector we provide:
   - Lift the lever completely to fully open position
   - Strip wire to 11mm length
   - Insert wire fully into the connector opening
   - Push lever down completely until it clicks
   - Verify lever is fully closed and flush with connector body
   - Gently pull each wire to confirm secure connection
2. Check power supply ratings
3. Confirm load is within 8A limit

Safety Warnings

1. Indoor use only
2. Avoid high humidity
3. Keep away from water
4. No explosive environments
5. Do not disconnect power during firmware updates (when RED LED blinks and GREEN LED is on)

Resources & Technical Support

For complete documentation and instructions:

1. Visit: https://bit.ly/01-910-00025, navigate to **Manuals & Resources** tab

2. Or scan QR code to access from the item page:

3. Email support if you need help:

support@linortek.com

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