

# Elpas Single-Door Wandering Patient Solution

## Quick Installation Guide

For P/Ns: 5-WDK00001, 5-WDK00001-1, 5-WDK00001-2

**Elpas**  
Active RFID Solutions

## Introduction

This guide provides basic wiring instructions for common installation scenarios.

For complete details about mounting and configuring the Elpas Single-Door Wandering Patient Solution, this document should be used in conjunction with the corresponding Installation and User Guide, which is available for download from Visonic Technologies' website at:

<http://www.visonictech.com>

## Kit Contents

Product	Description	Reorder P/N
Power Supply	24 Volt 2.2 Amp	5-ERS02601
Junction Box (EJB)	Connects PS, Exciter, Reader	5-FJB00001
RF Reader	Receives radio messages from tag and commands EXB to close relay when tag is excited by LF Exciter	5-RDF00001-1W
RF Antenna Extension Kit	Increases RF Range by separating antenna from electronics	Included in 5-RDF00001-1W
EXB Relay Module	includes mounting clip and cable for connection to RF Reader	5-NXB00001
LF Exciter	Excites tags that approach door. Maximum 3m. Range may be reduced.	5-RLE00125-1W
Wrist tag	Worn by wandering patient. Button disabled.	5-WTA00433-B
CL-8A	Programmable Keypad used to override alarm	3-6206-0
Reader Cables	26AWG 3-twisted pair w/ RJ12 connectors	5-ERS02721
Door Magnets	2 sets for double doors. Detects if door is opened.	MWD11166
Reader Surface Mount Ring	For surface mounting RF Reader and LF Exciter	5-RDT09113 (set of 5)
Reader Bracket	For reader insertion in ceiling tile	5-RDT09100 (set of 5)

## Not Included

- Electric Door Lock
- Siren
- Normally Open Wall Push Button (for overriding while entering)
- Cable for wiring alarm circuit (reader and EXB cables with connectors are provided).

## Principal of Operation

### Alarm

When an Elpas tag enters the Low Frequency (125KHz) field created by the LF Exciter, the tag receives the LF ID and retransmits the ID to an RF Reader. The RF Reader responds by energizing relay #1 of the connected relay box (EXB). This relay will remain energized until 15 seconds after the tag leaves the LF field. This relay may be wired to an electric lock and/or to a siren.

### Override Options

When the RF Reader receives a button press from a staff badge, it will energize relay #2 for 30 seconds. When wired Normally Closed and in series with relay #1, a Staff Badge button press may be used as an override mechanism.

The CL-8A Keypad may also be wired NC in series with the EXB and provide a PIN code override. Instructions for programming PIN codes and relay timing are included in the CL-8A package.

## Hardware Location

Most Elpas components are meant for hidden installation above the ceiling or in a cupboard located within a 5 meter range of the door.

The LF Exciter and the CL-8A Keypad are intended to be wall mounted next to the door.

## LF Positioning and DIP Switch Configuration

**Important:** Prior to installing the LF Exciter, the #1 DIP Switch must be pushed up.

In order to attain full coverage of an exit without penetration to adjacent floors, the LF Exciter should be installed at waist height on the wall next to the door. See the online installation guide for details. After wiring the kit, the LF range may be decreased by turning the device's potentiometer. See the LF Exciter user guide for details.

## Wiring Options

### Wired in Series

All options are based on wiring components in series. When alarm conditions exist, the circuit is closed. This must be considered when wiring the door lock and the siren.

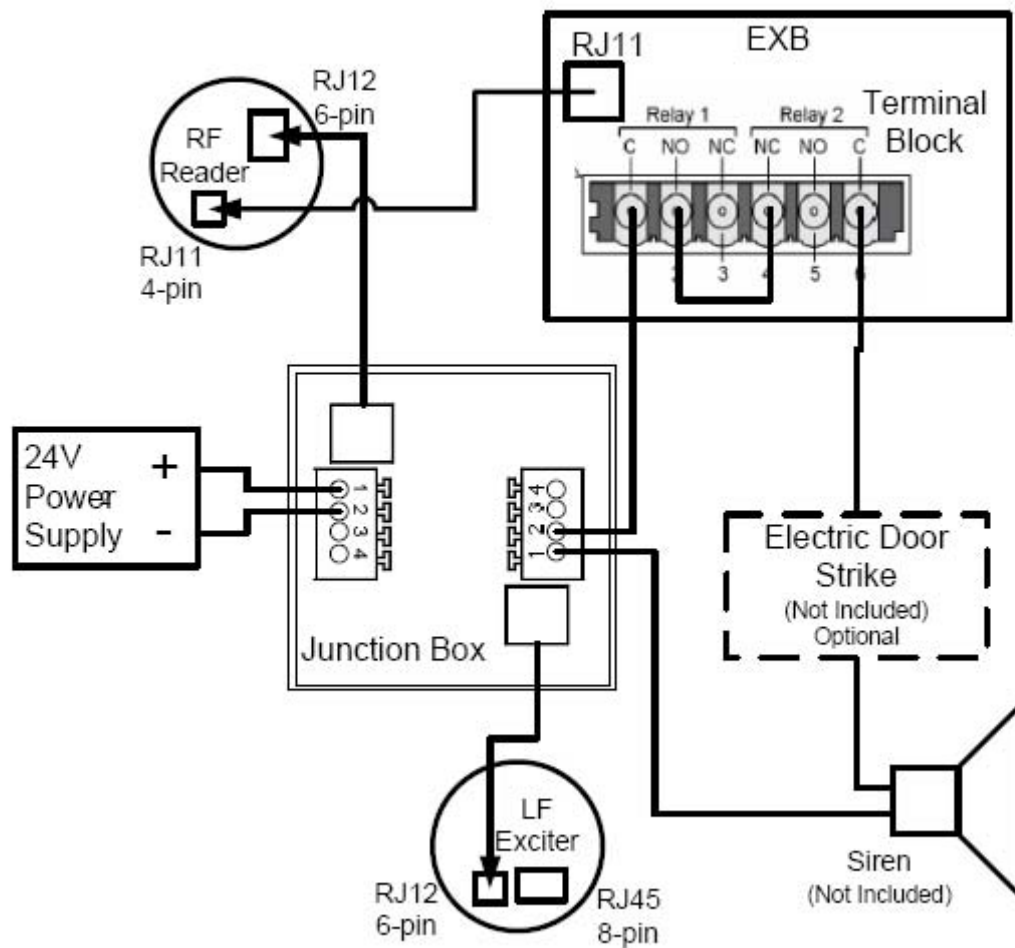
### Options

3 Wiring Options Exist

Option	Event	Override
Simple Exit Protection	When a wanderer approaches a door the circuit is closed. This may set a siren and/or lock the door.	The alarm may be overridden by pressing the button on a staff badge (not included).
Keypad override	Same as above	Alarm may be overridden with a keypad by keying in a pre-programmed pin code. A request to enter button (not included) may be installed outside the exit for suppressing the alarm when entering with a tagged patient.
Door Open Condition	An alarm sounds if a patient approaches the door AND the door is open. To achieve this a door magnet is wired (Normally Open) in series with the alarm circuit.	Same as above.

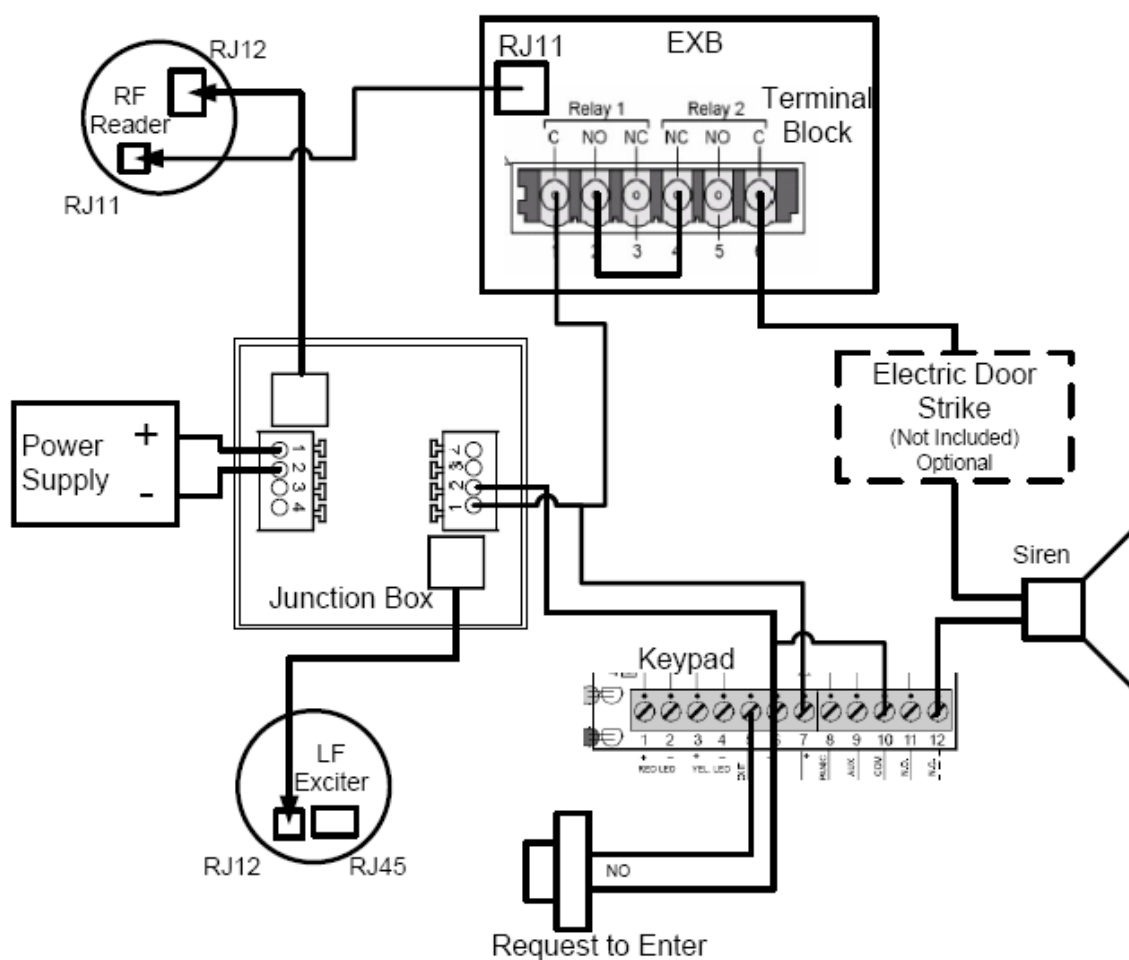
## Wiring Diagrams

### Simple Exit Protection



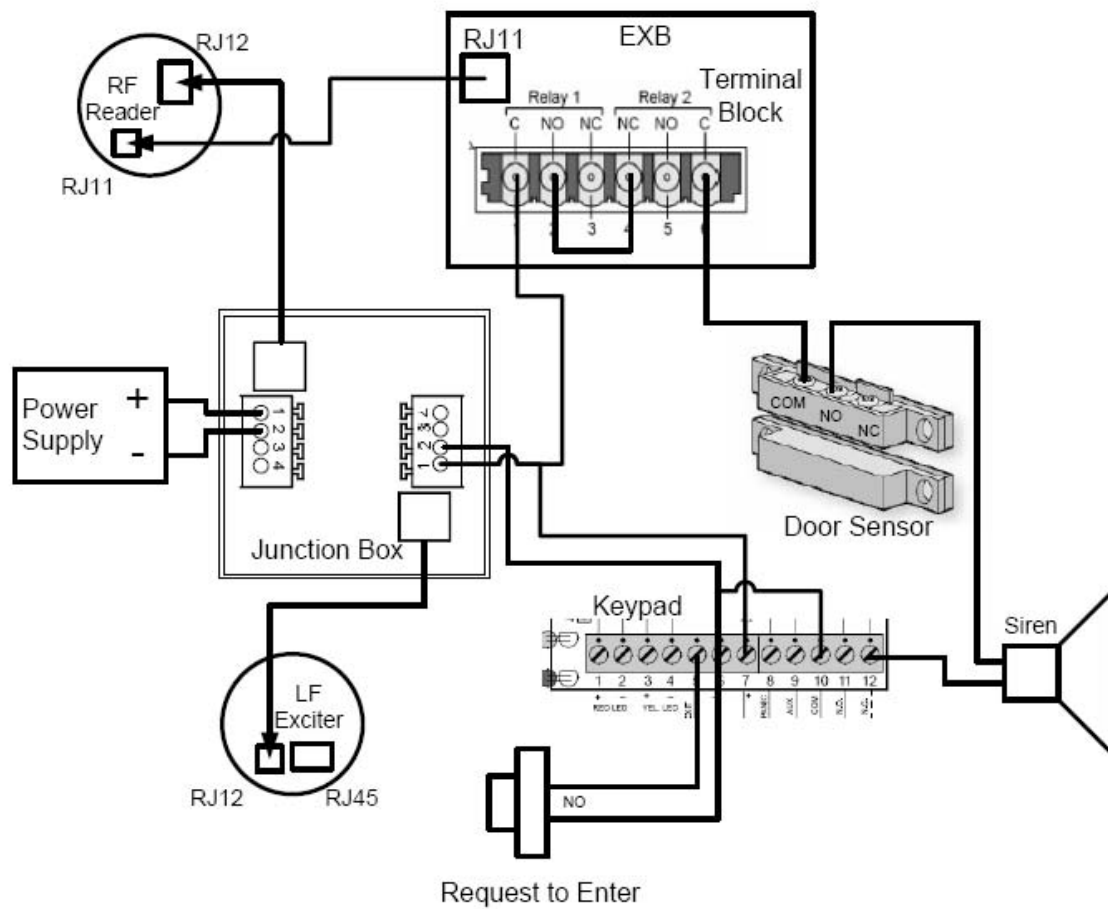
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## Keypad Override



**Important:** Prior to installing the LF Exciter, the #1 DIP Switch must be pushed up.




## Door Open Condition



**Important:** Prior to installing the LF Exciter, the #1 DIP Switch must be pushed up.

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For various reasons, including but not limited to changes in environmental conditions, electric, electronic, or electromagnetic disruptions, and tampering, the Product may not perform as expected. The purchaser and user are advised to take all necessary precautions for the protection and safety of persons and property. This statement provides certain legal rights. The rights may vary by state or country. Under certain circumstances, some states or countries may not allow exclusion or limitation of incidental or consequential damages or implied warranties, so the above exclusions may not apply under those circumstances and in those states or countries. The Manufacturer reserves the right to modify this statement at any time, in its sole discretion without notice to any purchaser or user. 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