

INSTALLATION NOTES



ultraProx™
ACCESS CONTROL SYSTEM



ULTRAPROX™ SPLIT SYSTEM

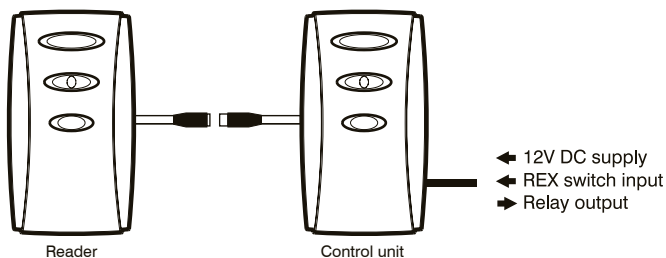
Part No. 101-012

ULTRAPROX™ SINGLE SYSTEM

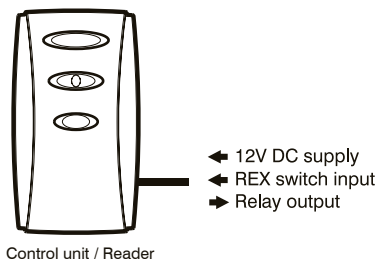
Part No. 101-013

- 1 door access control systems
- Changeover relay output for electric strike or mag lock
- 50 user cards/tags capacity
- Request to Exit input
- Available in single or split models

Ultraprox™ SPLIT SYSTEM



Ultraprox™ SINGLE SYSTEM



INTRODUCTION

UltraProx™ is a compact, technically advanced standalone access control system using proximity card reading technology.

The systems are fully self contained and do not require additional controllers.

The 101-013 Single System is a one piece proximity reader and controller with relay output. Since all the electronics and the relay are contained in the one housing, this model is extremely simple to install and is perfect for securing internal doors where the physical security of the reader is not an issue.

The 101-012 Split System is a two piece product supplied with a proximity reader and a separate controller with relay output. The Split System can be used to secure external access doors since the reader is separated from the controller and cannot be compromised from outside the building.

Ultraprox can be programmed with up to 50 access cards or keyfobs. The relay output with changeover contacts can operate an optional electric door strike without the need for additional external components.

A Request To Exit input is provided for connection of an optional door release pushbutton.

A bi-colour LED and built-in buzzer provide visual and audible confirmations and warnings.

Both models are supplied in attractive and tough housings with a small footprint and are fully sealed for outdoor use.

INSTALLATION & WIRING

Ultraprox systems are designed for surface mounting adjacent to the door being controlled. The readers are fully sealed for indoor or outdoor use.

The 101-013 Single unit requires 2 mounting holes and a 8mm cable clearance hole.

The 101-012 Split System requires 2 mounting holes and a 12mm cable clearance hole.

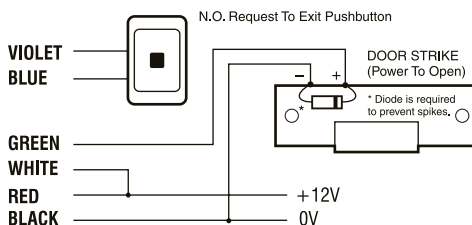
The Split System has a separate reader and control unit connected by matching miniDIN connectors on 300mm of cable, (connected length). The control unit is usually mounted on the opposite (internal/secure) side of the wall to the reader.

WIRING All models

——	VIOLET N.O. Input	} Request To Exit switch input
——	BLUE N.O. Input	
——	BROWN N.C.	} Relay output
——	GREEN N.O.	
——	WHITE COM	
——	RED +12V	} Regulated 12V DC power supply
——	BLACK 0V	
——	SHIELD Connected internally to 0V	

EXAMPLE DOOR STRIKE WIRING

The relay output can operate an electric door strike as shown.



PROGRAMMING

Each Ultraprox system is supplied with a Master Card which is used for programming. Each Master Card is unique and cannot readily be replaced.

TO ENTER PROGRAM MODE

- To enter program mode, present the master card within 100mm of the reader. The LED will flash red.

If no action is taken within 10 seconds then the reader will exit program mode.

TO ADD A CARD

Up to 50 cards/fobs can be programmed in the system into 50 user "slots".

- In program mode, present an unprogrammed card to the reader.
- The led will light up green and the beeper will give out 3 short beeps. The reader will then exit program mode.

The card has now been programmed into the next available slot.

TO DELETE ALL USER CARDS

Once in program mode, present the Master Card to the reader again. (There must be a gap of at least one second before presenting the Master Card again). The led will light up orange while all cards are being deleted. On completion, the beeper will sound 3 short beeps and the LED will light green for one second before exiting program mode. All user cards are now deleted.

COMPATIBLE USER CARDS/FOBS

Ultraprox systems are compatible with:
101-085 Clamshell cards
101-086 ISO cards
101-087 Keyfobs

OPERATION

Present a programmed card to the reader. The relay will turn on for 5 seconds, the led will light up green and the beeper will sound 3 short beeps.

If an unprogrammed card is presented, the beeper will sound a long beep.

REQUEST TO EXIT INPUT

The Request To Exit (REX) input can be connected to a Normally Open push momentary pushbutton for a manual door release.

When the REX button is pressed the relay will operate, the LED will light up green and the beeper sound 3 short beeps. The relay output will stay on for 5 seconds after the REX button is released.

POWER SUPPLY

It is recommended that a linear (non-switch mode) power supply is used to ensure maximum read range.

The Ultraprox system's power requirements are very low. A regulated 12V DC plug pack delivering 500mA will be sufficient.

Be sure to allow for the power consumption of the additional door strike or magnetic lock if they are being powered off the same power supply.

IMPORTANT:

Access control products require protection from EMF spikes generated by external relays or solenoid lock devices. UltraProx requires the fitting of the supplied diode at the device (strike or relay) to minimize back EMF that will otherwise cause damage to the reader unit.

Failure to use the diode as specified will void any warranty.

SPECIFICATIONS

OPERATING VOLTAGE	12–16V DC Regulated linear power supply
CURRENT DRAW	50mA, 75mA with buzzer and relay on
FREQUENCY	125kHz
CARD READ TIME	64Bits <50msec
RELAY OUTPUT	Changeover contacts, rated 1A @ 12V DC
RELAY ON TIME	5 seconds
PIEZO BEEPER	Card read OK status
BI COLOUR LED	RED - Power on RED flashing - Program mode GREEN - Valid card / access granted
CARD READ RANGE	100mm
CARD COMPATIBILITY (All models)	101-085 Clamshell cards 101-086 ISO cards 101-087 Keyfobs
CARD CAPACITY	50 CARDS
DIMENSIONS	82(H) x 48(W) x 24(D)mm



NESS ULTRAPROX™ STANDALONE SYSTEMS
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For products,
101-012 Ultraprox Split System
101-013 Ultraprox Standalone System

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