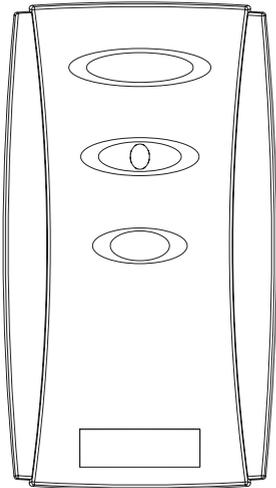


INSTALLATION NOTES



ultraProx™
ACCESS CONTROL SYSTEM

ULTRAPROX™ WEIGAND READER
Part No. 101-014



- Compatible with Ness D8X/D16X and XCEL series control panels.
- Compatible with most access control controllers.
- 26 Bit Weigand output.
- Slimline waterproof housing with epoxy potted electronics
- User configurable inputs for the onboard buzzer and green LED.



INTRODUCTION

The Ness UltraProx Weigand Reader is a compact, technically advanced Proximity access control reader with 26 Bit Weigand output for use with a separate controller.

Compatible with Ness D8X/D16X and XCEL series control panels and most other access controllers.

The reader is built into a small footprint mullion mount housing and is fully sealed for outdoor use.

INSTALLATION

The reader is designed for surface mounting adjacent to the door being controlled. The unit is fully sealed for indoor or outdoor use.

Installation simply requires 2 mounting holes and an 8mm cable clearance hole.

WIRING

The wire loom can be terminated using screw terminals, (not supplied), or other appropriate connectors.

The piezo beeper and the green LED are installer configurable and can be wired as required to the controller. Apply 0V (neg) to turn on.

- VIOLET - Used for addressing multiple readers
- BLUE - Buzzer control - apply neg
- BROWN - Green LED control - apply neg
- GREEN - Weigand data 0
- WHITE - Weigand data 1
- RED - 12V Regulated DC
- BLACK - 0V
- SHIELD - Connected internally to 0V

CABLE

Recommended cable is twisted 3 pair shielded cable with only one end of the shield connected to ground.

101-170 DATA CABLE 3 PAIR TWISTED
100m Reel

101-172 DATA CABLE 3 PAIR TWISTED
300m Reel

A weigand data repeater is recommended for cable runs over 75m.

NESS PANEL INTERFACE

The Ultraprox Weigand Reader can be used with the Ness D8x and D16x control panels.

A single reader can be used to control one door or connect up to 3 readers for multiple door control.

See the Ness D8x/D16x installation manual for further detail and panel programming instructions.

ADDRESSING READERS

The violet addressing wire is required only if connecting multiple readers to Ness D8x or D16x control panels.

If the violet wire is left unconnected, standard Weigand data is sent without address data.

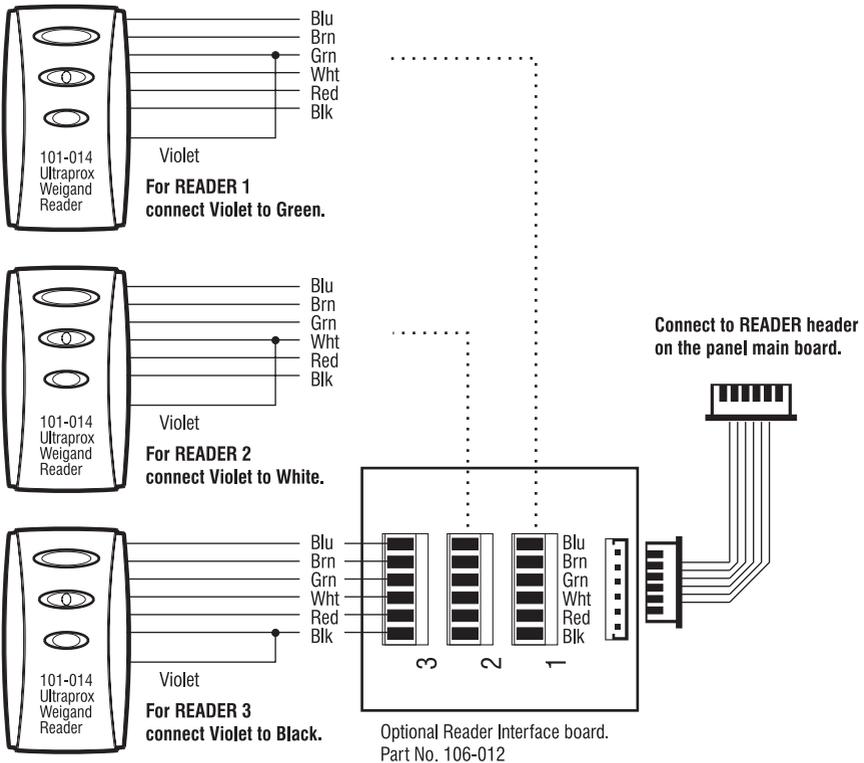


Diagram for connection of up to 3 Ultraprox Weigand Readers to Ness D8x or D16x control panels.

POWER SUPPLY

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

The Weigand Reader would normally be supplied by the control panel or controller to which it is connected.

SPECIFICATIONS

OPERATING VOLTAGE	12–16V DC Regulated linear power supply
CURRENT DRAW	50mA
FREQUENCY	125kHz
CARD READ TIME	64Bits < 50msec
DATA OUTPUT	26 Bit Weigand
PIEZO BEEPER	User configurable
TRI COLOUR LED	User configurable
CARD READ RANGE	100mm
CARD COMPATIBILITY	EM format prox cards/fobs
CARD CAPACITY	Determined by the controller
DIMENSIONS	48(W) x 82(H) x 24(D)mm



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NESS ULTRAPROX™ WEIGAND READER
INSTALLATION NOTES
REV2.1

Document part number: 890-335
For the product, 101-014 Ultraprox Weigand reader

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