

Multilink MVR1. Vandal Resistant combined Proximity & Keypad Reader

A combination of a virtually indestructible keypad with a proximity reader offering the security industry the best of both worlds for the first time.

- Vandal Proof Tamper Proof
- Weather Proof (-15F to +158°F) (-25°C to +70°C)
- Water Proof and Dust Proof (IP68)
- Ideal for high traffic areas
- Keypad (no moving parts, solid state construction)
- Anodised graphics that will never wear off
- Lifetime Warranty

Vandal resistant, the keypad reader offers the ultimate in strength and durability where Proximity, PIN and or both are required for entry. With a tamperproof keypad and a weatherproof, solid brushed aluminium casing, The keypads are designed to function dependably even in harsh climates or high-risk, high-traffic environments.

The reader is equipped with a HID compatible reader and a piezoelectric keypad-contained within a single, indestructible metal housing. 12 VDC power, 150mA current draw and red and green status LED's. The keypad uses solid state ceramic piezo sounder technology to provide audible feedback



Connections instructions Multilink MVR1

Remove the hex screw at the bottom of the reader assembly. Use the back plate as a template and noting the hole where the cable is to be connected, mark the wall and using plugs fix the backplate to the wall.

Make sure that the back plate is not distorted by over-tightening screws on uneven walls.

The wide lip of the back plate should be to the top, the small lip to the bottom.

The MVR1 can be used with any system where a HID Proxpro Keypad reader with weigand output will function.

The details on the next page are the DDS range of control systems.

THERE ARE TWO WAYS TO CONNECT THIS READER DEPENDANT ON THE CONTROLLER VERSION:

Method 1 Toplock Rev B. (Black connector strips)

Reader Controller

Black	Connect 0v to Reader 1 or 2 as required
Brown	Connect to LED1 if reader 1 or LED2 is reader 2
Red	12vdc to PSU direct If controller housing is grey or white square box connect direct to PSU
Green	Connect at controller in series with 1k resistor. Connect other end of resistor to Clk1 if reader 1 or Clk 2 if reader 2
White	Connect to Dat1 if reader 1 or Dat 2 if reader 2
Diode	Connect a 1N4001 diode with the positive end (the white strip) end directly into Dat 1 or 2 depending on reader. Connect the other end into Clk1 or Clk2 depending on reader.

IF THE RESISTOR AND DIODE ARE NOT FITTED THE READER AND KEYPAD WILL NOT FUNCTION

The following only applies to Rev B series controllers

Flip switch 7 on JP4 to the right, i.e. ON (8 switch unit Orange in colour)

The reader is now ready to operate.

Method 2 Toplock Rev D (Green connector strips)

Reader Controller

Black	Connect 0v to Reader 1 or 2 as required
Brown	Connect to LED1 if reader 1 or LED2 is reader 2
Red	12vdc to PSU direct.
Green	Connect Clk1 if reader 1 or Clk 2 if reader 2
White	Connect to Dat1 if reader 1 or Dat 2 if reader 2

The following only applies to Rev D series controllers

If not already altered flip switch 4 on DS2 to the right i.e. ON (4 switch unit Orange in colour)

Flip switch 7 on JP4 to the right, i.e. ON (8 switch unit Orange in colour)

The reader is now ready to operate.

The extra wires are as follows:

Blue wire	Open collector, Activates with each key for 30 seconds
Violet	Housing Ground
Orange	Buffered input
Grey	Tamper output. Optical sensor, goes low when light sensed.