

# Keypad

## INSTALLATION INSTRUCTIONS

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# Introduction

Cansec's Wiegand Emulating Keypad emulates standard 26-bit or Cansec 37-bit Wiegand format by allowing users to use an existing access user ID as a Personal Identification Number (PIN). A site code can be programmed into the keypad via the number pad.

There are two models of Keypad: Heavy Duty (WEK200) and Light Duty (WEK200L). The WEK200 faceplate and keys are made of stainless steel to withstand harsh use. The WEK200L faceplate and keys are made of durable plastic – a more cost effective option for lighter uses. Both keypads are sealed against dust and resistant against water damage.

## Specifications\*

Description:	WEK200 Wiegand Emulating Keypad
Warranty:	One year
Operating Voltage:	5 to 14 VDC
Current Draw:	50 mA max
Output Format:	26-bit & Cansec 37-bit Wiegand
Operating Temp - WEK200:	40°C to 70°C (40 °F to 158 °F)
WEK200L:	-10°C to 70°C (14°F to 158°F)
Dimensions WEK200 & WEK200L:	99.5 mm (w) x 118.5 mm (h) x 8 mm (d) [(3.92 in (w) x 4.67in (h) x 0.31in (d)]
Weight – WEK200:	approx. 450 g (15.9 oz)
WEK200L:	approx. 88 g (3.1 oz)
Colour – WEK200:	Silver - stainless steel
WEK200L:	Black - plastic
Casing – WEK200:	Chromed die-cast zinc
WEK200L:	General service polymer
Mounting:	Single-gang electrical box
Environment:	Indoor; outdoor
Rated IP 65 – WEK200:	Water/dust-sealed (when mounted to suitable enclosure)
Rated IP 54 – WEK200L:	Water/dust-sealed (when mounted to suitable enclosure)
LED:	Bi-colour standard (red, green)
Beeper:	Standard
Cable:	Use 7 conductors, 22 AWG, stranded, overall shield for 1 line LED and sonalert control, 150 m (500 ft) max length to controller

\*Specifications subject to change without notice.

# WEK200, WEK200L and WEK Board

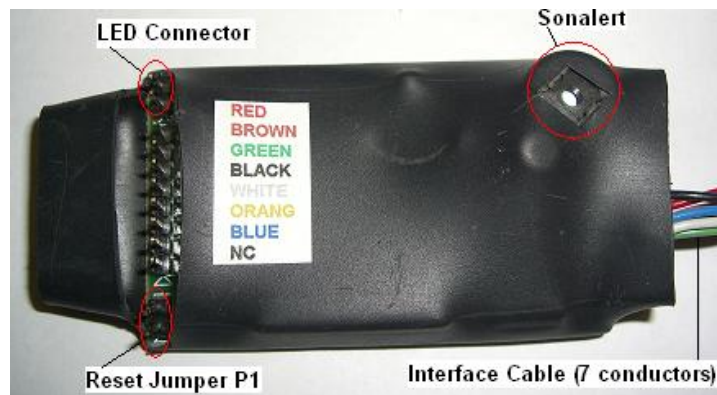
WEK200 – Front



WEK200 - Back



WEK Board



WEK200L – Front

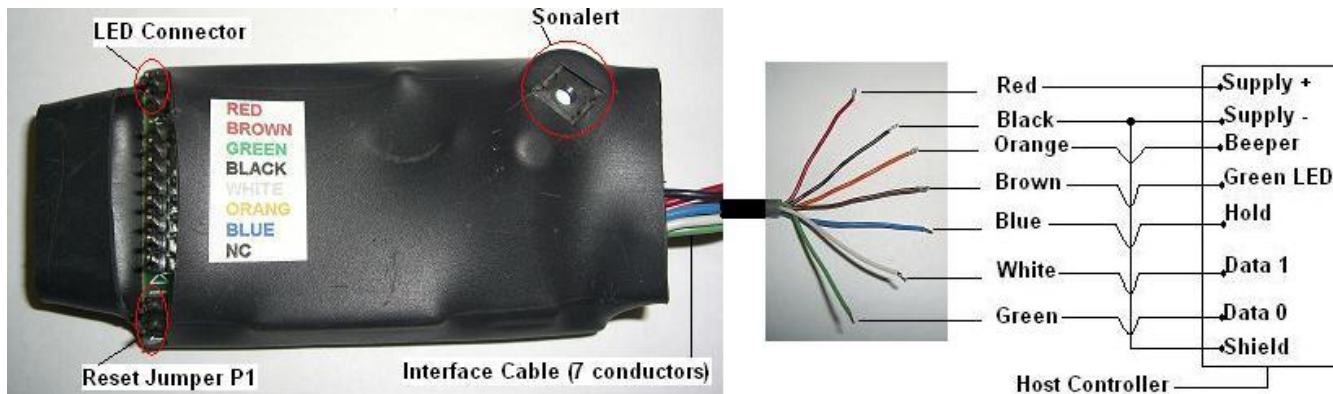


WEK200L – Back



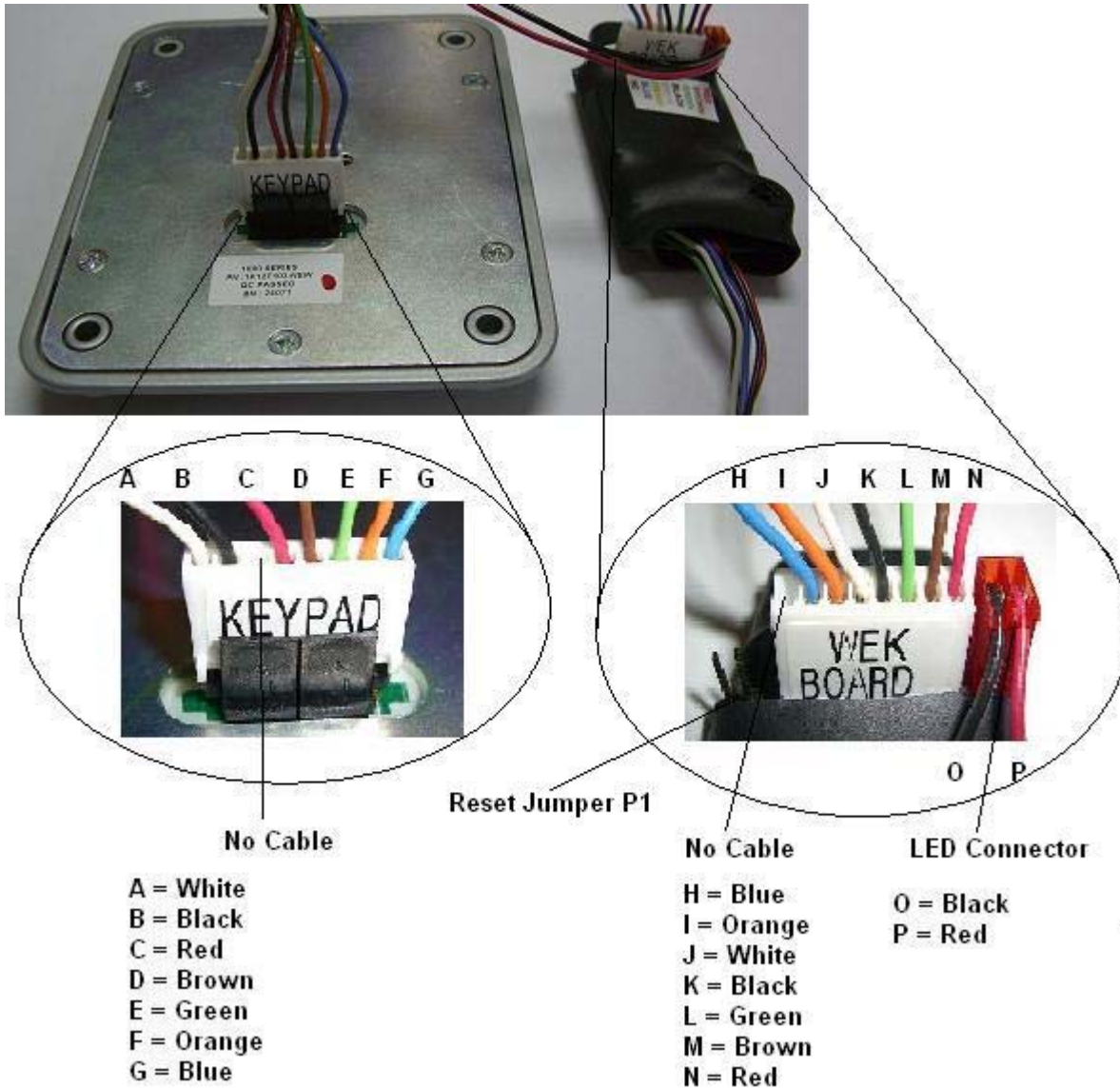
# WEK Board Wiring

1. The image below shows the wiring colours and the orientation of the seven (7) conductors interface cable from the WEK board to the access controller.



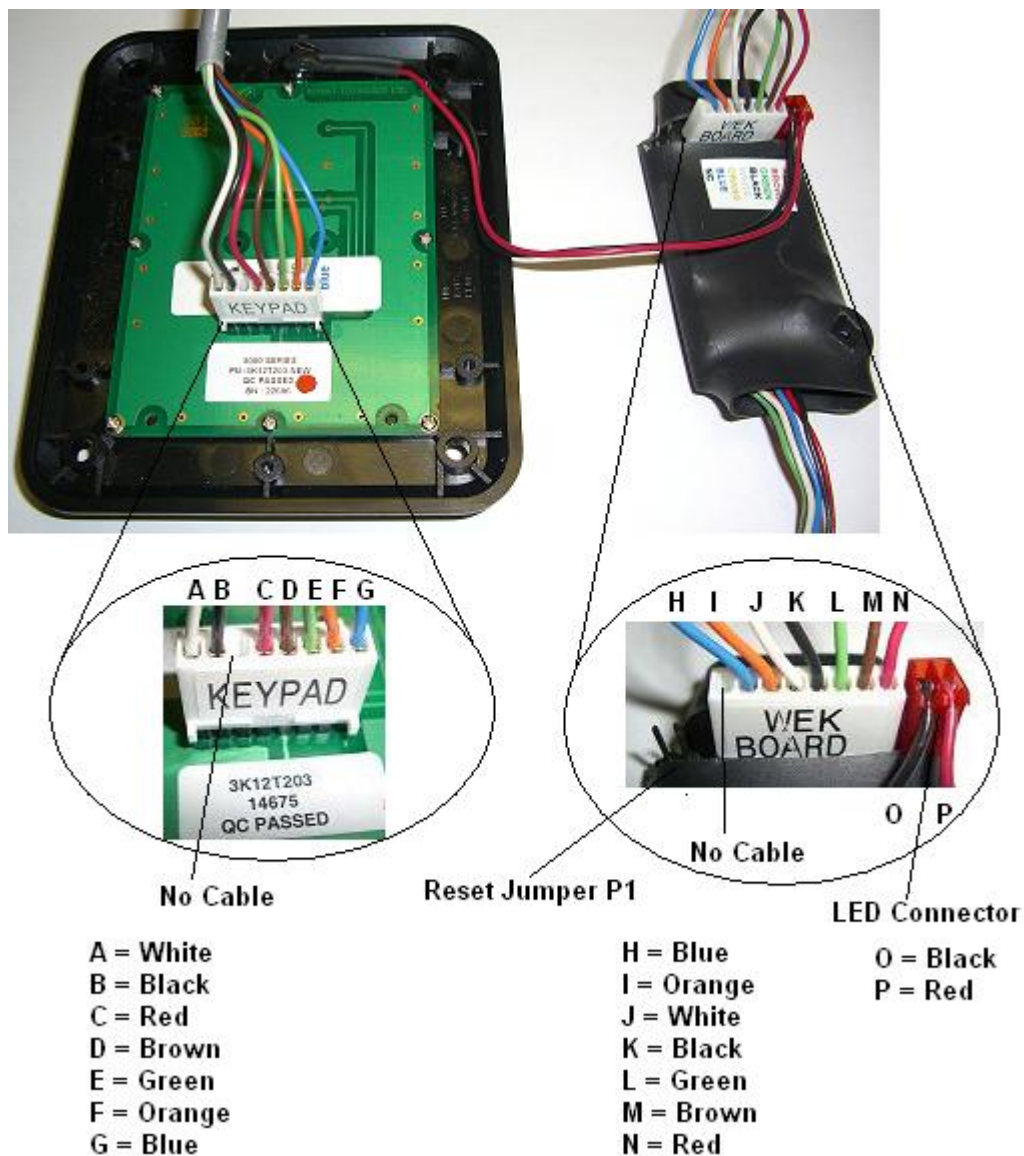
# WEK200 Wiring

- The image below shows the wiring colours and the orientation of the connectors with respect to the WEK200 keypad and the WEK board.



# WEK200L Wiring

- The image below shows the wiring colours and the orientation of the connectors with respect to the WEK200L keypad and the WEK board.



# Programming the System Code

**Important:** The pound sign (#) must be entered after a system code is entered or else all inputs are ignored.

1. For 26-bit Wiegand output, enter a number from 0 to 255 followed by the # key and a long beep will sound.
2. For 37-bit Wiegand output (Cansec proprietary format), enter a number from 256 to 32767 followed by a # key and a long beep will sound.
3. The LED indicator should now turn solid **RED** and the programming is finished.

**Note:** The unit comes from Cansec in virgin mode (flashing **RED** and **GREEN**) without a programmed system code.

If for some reason, the unit is not flashing **RED** and **GREEN** (it is not in virgin mode), temporarily short the two pins (jumper P1) with pliers or a screw driver. This will reset the unit to virgin mode and the unit will begin to flash **RED** and **GREEN**. Follow steps 1 through 3 to program.