

Specification

Operating temperature	-10 to +50 °C
Storage temperature	-20 to +60 °C
Humidity	0 to 95% non-condensing
IP rating	IP54
Operating voltage	16 to 22 VDC
Typical operating current	26 mA
Max operating current	77 mA
The maximum rated continuous current with the switch closed	0.8 A
The maximum rated switching current (e.g. under short circuit conditions)	3 A
The maximum leakage current with the switch open (isolated state)	0.2 A
The maximum series impedance with the switch closed	0.8 Ohm
Operating frequencies	868 MHz
Output transmitter power	Auto adjusting 0 to 14 dBm (0 to 25 mW)
Signalling protocol	X
Dimensions (W x H x D)	270 x 205 x 75 mm
Weight	0.95 kg

Regulatory information

Manufacturer	Carrier Manufacturing Poland Sp. z o.o. Ul. Kolejowa 24. 39-100 Ropczyce, Poland
Year of manufacture	See serial number label inside unit
Certification	CE 14
Certification body	0905
CPR DoP	0359-CPR-00437
Location	Type A: Indoor use
Approved to	EN54-17 EN54-18 EN54-25
European Union directives	EMS declares that this device is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.firesecurityproducts.com
	2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see www.recyclethis.info

Product warnings and disclaimers

THESE PRODUCTS ARE INTENDED FOR SALE TO AND INSTALLATION BY QUALIFIED PROFESSIONALS. CARRIER FIRE & SECURITY CANNOT PROVIDE ANY ASSURANCE THAT ANY PERSON OR ENTITY BUYING ITS PRODUCTS, INCLUDING ANY "AUTHORIZED DEALER" OR "AUTHORIZED RESELLER", IS PROPERLY TRAINED OR EXPERIENCED TO CORRECTLY INSTALL FIRE AND SECURITY RELATED PRODUCTS.

For more information on warranty disclaimers and product safety information, please check <https://firesecurityproducts.com/policy/product-warning/> or scan the following code:



Conventional wireless communicator installation guide

General

The Ziton conventional wireless communicator is available under the following part number:

PART NO	VARIANT TYPE
ZCR868-C	Ziton conventional wireless communicator

Pre installation

Installation must conform to applicable local installation codes and should only be installed by a fully trained competent person.

Ensure the Ziton conventional wireless communicator (CWC) is installed as per the site survey.

Refer to the 'Mounting location guidelines' section to ensure optimised wireless performance.

Refer to the CWC engineers guide (TSD146) for full programming details.

This device contains electronics that may be susceptible to damage from Electrostatic Discharge (ESD). Take appropriate precautions when handling electronic boards.

The CWC allows for 30 Ziton wireless devices to be added to an existing fire alarm control panel, in conjunction with a Ziton conventional wireless IO (CWIO).

The CWC is to be powered from the control panel's auxiliary 24 V output.

Designated zone and sounder circuits will be required to accommodate the CWC.

Mounting location guidelines

To ensure the optimum range performance of the CWC is achieved, the following should be considered:

Ensure the CWC and CWIO are separated by a minimum of 0.6 m.

Ensure that the CWC is not installed within 2 m of the control panel or any other wireless or electrical equipment. (Figure 1)

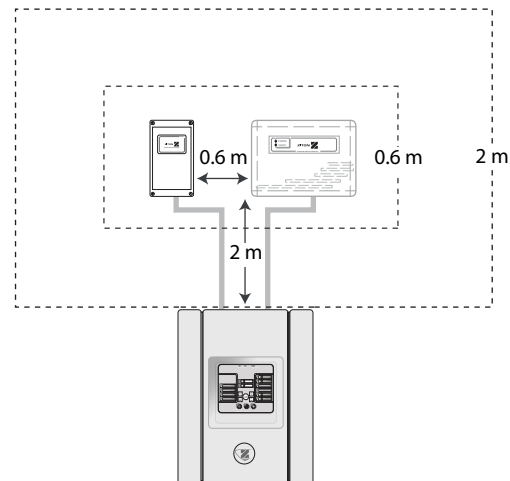


Figure 1

Remove cable entry points

To gain access into the unit, remove the four corner covers and screws, allowing removal of the front plate. These must be kept in a safe place for refitting once installation is complete. Removing the front plate will expose the CWC PCB.

Care must be taken to ensure the CWC PCB is not damaged in the installation process. The CWC PCB can be removed for additional access to mounting points if required. See the 'Removing/inserting the CWC PCB' section for more details.

Retain the four corner covers and screws for re-assembly when installation completed.

Drill the cable entry points as necessary. Available cable access points are shown. (Figure 2)

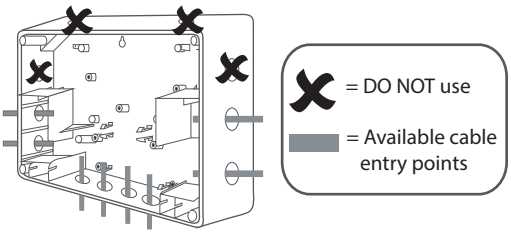


Figure 2

Fix to the wall

Position the Zitron CWC in the required location and mark the five fixing positions shown. (Figure 3)

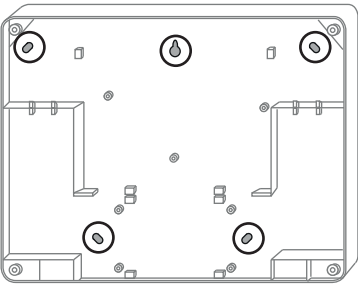


Figure 3

Using suitable screws and fixings install the top screw and locate over the keyhole slot provided. Ensure the screw does not protrude too far from the wall so a secure mounting can be achieved.

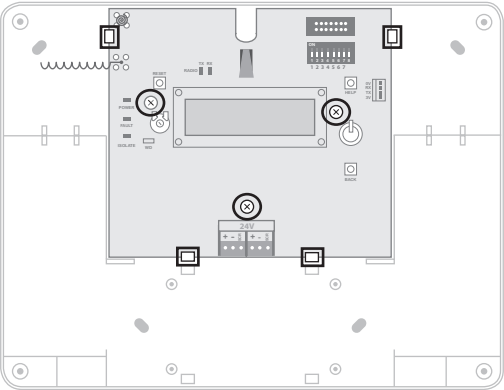
All five circled fixing positions are available for use as required.

Optional CWC PCB removal

The CWC PCB can be removed for additional access to mounting points if required.

If removed, care must be taken to ensure that the PCB is carefully stored, correctly re-inserted and held in place by all four PCB retaining clips. The PCB must also be further secured using all three PCB retaining screws.

The locations of the PCB retaining clips and PCB retaining screws are shown. (Figure 4)



- = PCB retaining clips
- ⊗ = PCB retaining screws

Figure 4

Wiring

Cables should only be passed via the access points available.

Flame retardant cable glands must be used.

Cable lengths should be kept to a minimum to ensure cables are away from the PCBs aerials.

Note: If the CWC is to be powered from a separate 24 V power supply, the power supply should be fault monitored. A wireless input / output unit can be used if required.

Refer to the conventional wireless communicator programming guide for full wiring details (TSD146).

Applying power

Apply power. The normal LED states for the CWC are as below: (Figure 5)

POWER LED - green LED will be on.

FAULT LED - yellow LED will be off.

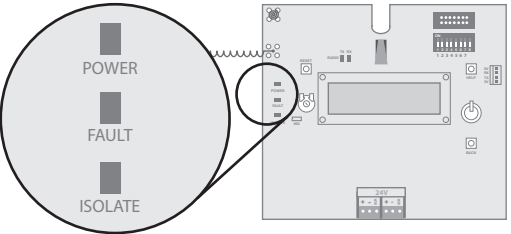


Figure 5

Note: the ISOLATE LED is not used on this product.

CWC overview

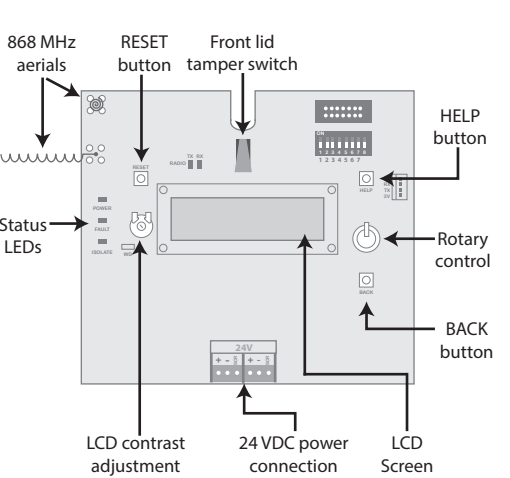


Figure 6

Rotary control operation

The rotary control is used to scroll through and enter menu options for programming purposes.

Reassemble the CWC

Ensure that the CWC PCB is correctly inserted and the PCB retaining screw is refitted.

Refit the CWC lid, ensuring all four lid screws and corner covers are fitted.

Care must be taken to ensure the LEDs are not damaged by the light pipe when refitting the CWC lid.