

Specification

Operating temperature	-10 to +50 °C
Storage temperature	-20 to +60 °C
Humidity	0 to 95% noncondensing
IP rating	IP54
Operating voltage	16 to 22 VDC loop powered
Typical operating current	26 mA loop powered
Max operating current	77 mA loop powered
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
Panel protocol	ZP
Dimensions (W x H x D)	270 x 205 x 75 mm
Weight	0.95 kg

Regulatory information

Manufacturer	KGS Manufacturing Poland Sp. z o.o. Ul. Kolejowa 24. 39-100 Ropczyce, Poland
Year of manufacture	See serial number label inside unit
Certification	 
DoP number	0359-CPR-0224
Approved to	EN54-17 EN54-18 EN54-25
Location	Type A: For indoor use
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: 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 recyclethis.info

Contact information and product documentation

For contact information or to download the latest product documentation, visit firesecurityproducts.com.

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Radio loop module installation guide

General

The Ziton radio loop module (*RLM*) is available under the following part number:

PART NO	VARIANT TYPE
ZPR868	Ziton radio loop module

The address of the unit is set using the onboard 8 way switches – see the Address setting section below.

Pre installation

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

Ensure that the device is installed as per the site survey.

The use of a non-metallic spacer should be considered if mounting the device on to a metal surface.

DO NOT press the log on button on a pre-programmed device, as this will cause communication with the control panel to be lost. Should this happen, delete the device from the system and add it back on.

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

Loop design

The Ziton radio loop module is powered from the loop; the unit draws a typical current of 26 mA. A maximum of two loop modules can be connected to a loop. The current drawn from the module should be taken into consideration when calculating the total load of a loop.

Address setting

It is recommended that the loop address number is allocated prior to the unit being installed. The address number is set using the onboard 8 way switch.

Available selections are shown in the Table 1.

Table 1

DIL SWITCH SETTING		DIL SWITCH SETTING	
ADDRESS	1.....8	ADDRESS	1.....8
1	10000000	64	00000010
2	01000000	65	10000010
3	11000000	66	01000010
4	00100000	67	11000010
5	10100000	68	00100010
6	01100000	69	10100010
7	11100000	70	01100010
8	00010000	71	11100010
9	10010000	72	00010010
10	01010000	73	10010010
11	11010000	74	01010010
12	00110000	75	11010010
13	10110000	76	00110010
14	01110000	77	10110010
15	11110000	78	01110010
16	00001000	79	11110010
17	10001000	80	00001010
18	01001000	81	10001010
19	11001000	82	01001010
20	00101000	83	11001010
21	10101000	84	00101010
22	01101000	85	10101010
23	11101000	86	01101010
24	00011000	87	11101010
25	10011000	88	00011010
26	01011000	89	10011010
27	11011000	90	01011010
28	00111000	91	11011010
29	10111000	92	00111010
30	01111000	93	10111010
31	11111000	94	01111010
32	00000100	95	11111010
33	10000100	96	00000110
34	01000100	97	10000110
35	11000100	98	01000110
36	00100100	99	11000110
37	10100100	100	00100110
38	01100100	101	10100110
39	11100100	102	01100110
40	00010100	103	11100110
41	10010100	104	00010110
42	01010100	105	10010110
43	11010100	106	01010110
44	00110100	107	11010110
45	10110100	108	00110110
46	01110100	109	10110110
47	11110100	110	01110110
48	00001100	111	11110110
49	10001100	112	00001110
50	01001100	113	10001110
51	11001100	114	01001110
52	00101100	115	11001110
53	10101100	116	00101110
54	01101100	117	10101110
55	11101100	118	01101110
56	00011100	119	11101110
57	10011100	120	00011110
58	01011100	121	10011110
59	11011100	122	01011110
60	00111100	123	11011110
61	10111100	124	00111110
62	01111100	125	10111110
63	11111100	126	01111110
		127	11111110

Mounting location guidelines

Ensure that the Ziton radio loop module is sited in accordance with the survey and design details. The recommended minimum distance between metal objects from the aerial is 600 mm. The recommended minimum distance to any other electrical equipment is 2 metres.

Remove cable entry points

To allow access to the mounting points, remove the four corner covers and screws. Removing the front plate will expose the Ziton radio loop module PCB.

Care must be taken to ensure the PCB is not damaged in the installation process. See the 'Removing/inserting the Ziton RLM 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 1)

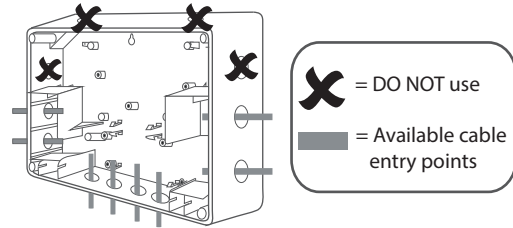


Figure 1

Fix to the wall

Position the Ziton radio loop module in the required location and mark the five fixing positions. These are shown. (Figure 2)

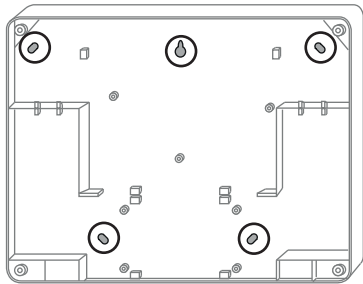


Figure 2

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.

Removing / inserting the Ziton RLM PCB

The Ziton radio loop module 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 3)

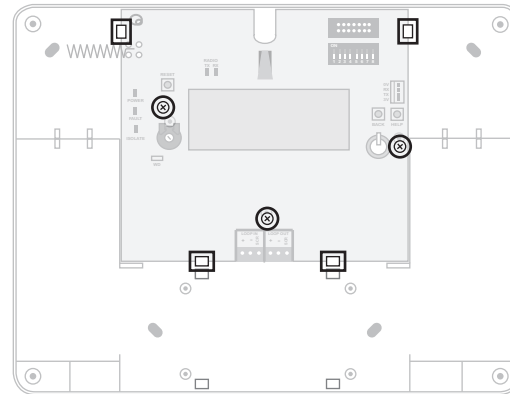


Figure 3

In order to remove the PCB, firstly remove all three PCB retaining screws. Then release the top two PCB retaining clips, by gently easing them outwards. This will allow the top of the PCB to be freed. Release the bottom two PCB retaining clips by gently easing them outwards. This will release the PCB.

Having now unclipped the PCB, it must be carefully lifted away from the casework and stored in a suitable, safe location.

To re-insert the PCB, firstly lower into place and slide the lower edge of the PCB under the bottom two PCB retaining clips (Figure 3). Then ease the top two PCB retaining clips outwards and secure it into place. The PCB should now be correctly affixed into position. Secure the PCB in the housing by refitting all three PCB retaining screws.

Connection wiring

The connections are accessed by removing the front plate of the interface module. The cable is to be passed through the knockouts provided.

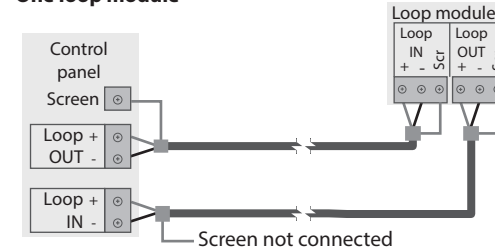
Loop cables should only be passed via the access points available.

Flame retardant cable glands must be used.

DO NOT leave excess cable inside the loop module.

Refer to the connection diagram. (Figure 4)

One loop module



Two loop modules

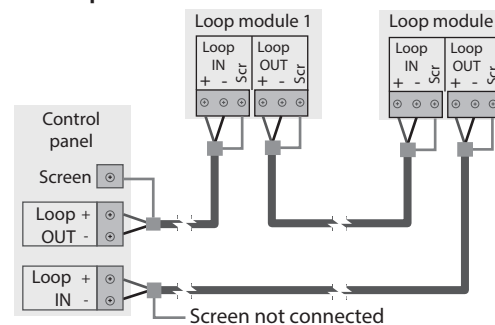


Figure 4

Functional testing

When polled by a compatible panel, the Ziton radio loop module, in its normal condition will return analogue values of 90 (slot 5) and 244 (slot 6).

Refer to the Ziton programming manual (TSD022) for full details on loop module and associated device functionality.



Radio Loop Module PCB.

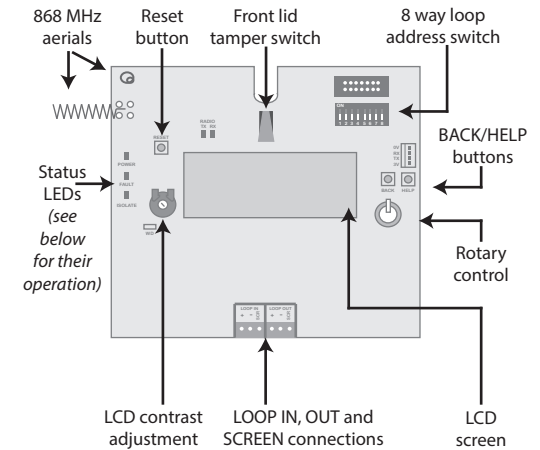


Figure 5

Status LED operation

Power LED: a green LED will be visible whilst an operating voltage is present.

Fault LED: a yellow LED will be visible whilst a tamper is present on the radio loop module. This could consist of an aerial tamper short or open circuit or a front lid tamper.

Note: this LED will be illuminated whilst the front lid is removed (tamper switch is open).

Isolate LED: a yellow LED will flash to indicate when the loop input has a short circuit present

Rotary control operation

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