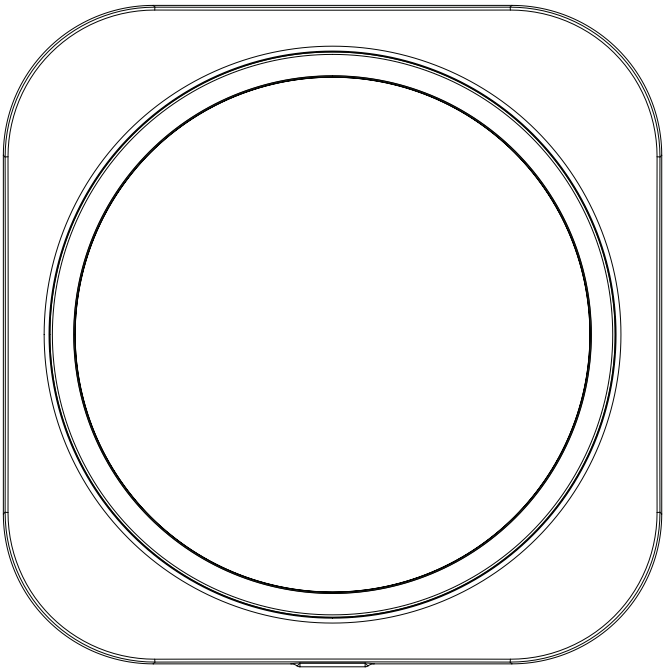
Orisec

INT-LS-LED-C

Internal Extension Speaker with LEDs

Installation Instructions



Designed and Manufactured
in the United Kingdom

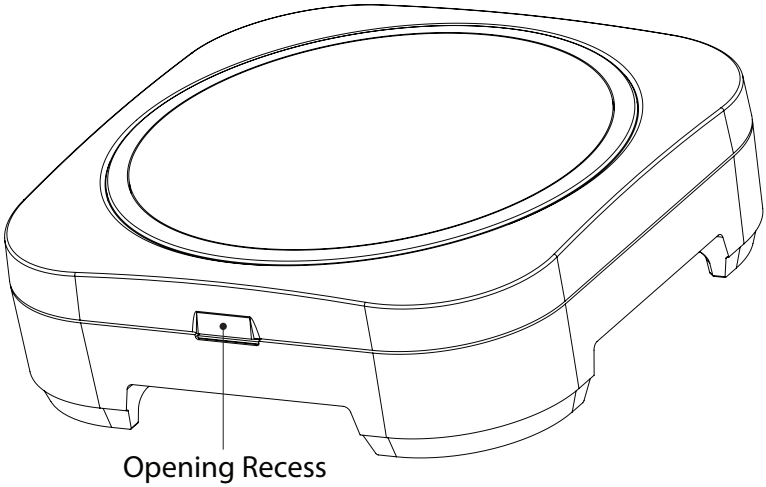
www.orisec.co.uk

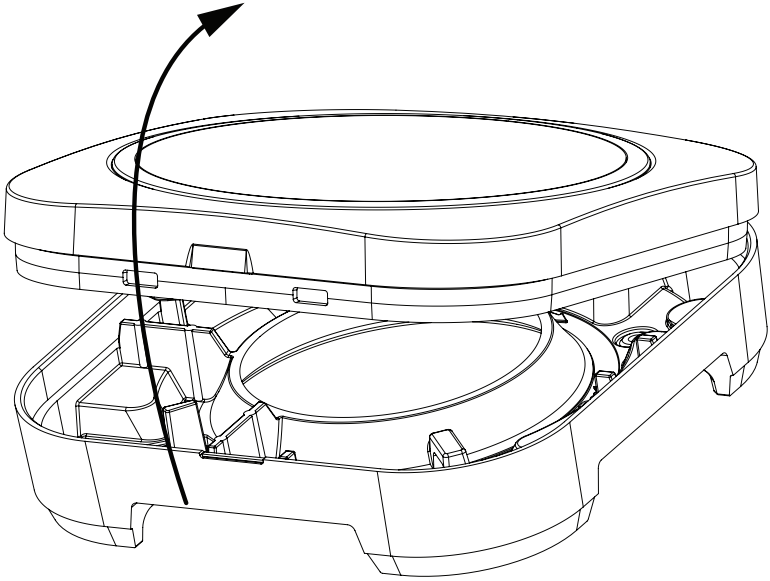
Introduction

The **INT-LS-LED-C** is an Internal Extension Speaker with multi-coloured LED Indication. This can be programmed at the Control Panel to indicate a variety of different functions, such as red for Alarm, bright white for Entry/Exit illumination and green for System Ready etc.

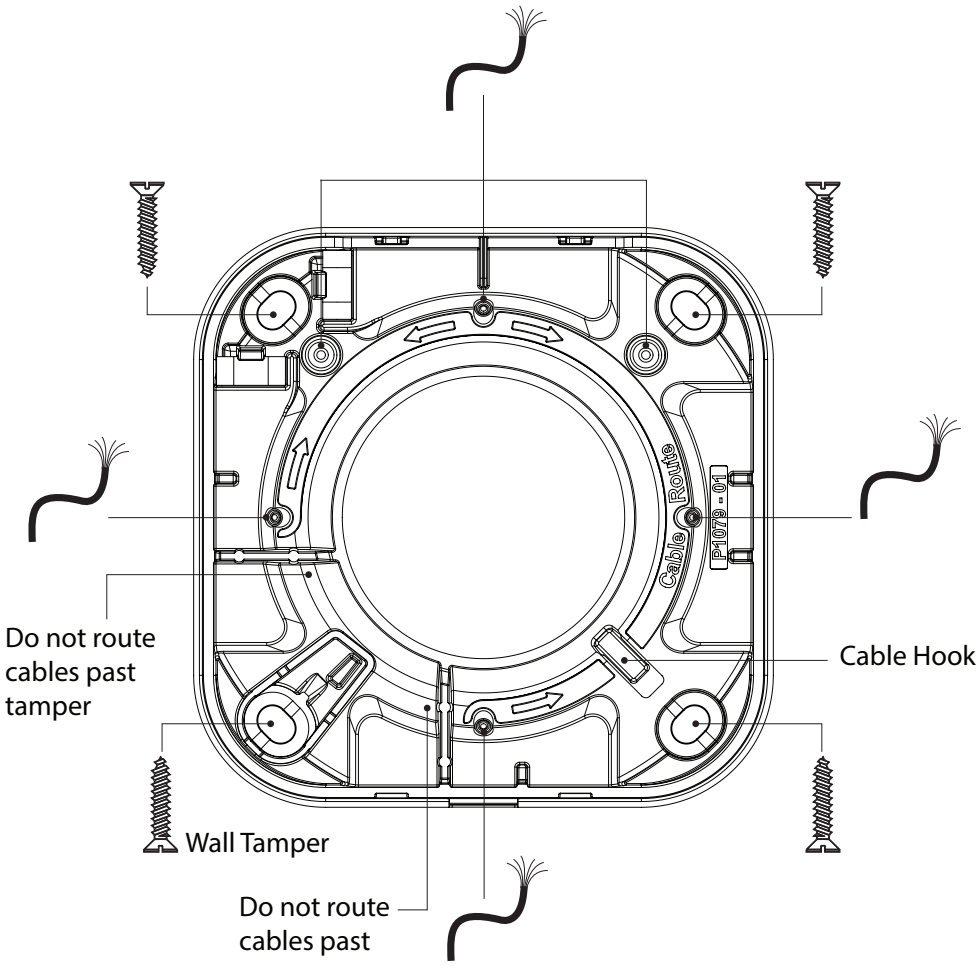
❶ Mounting the INT-LS-LED-C

To open the INT-LS-LED-C insert a flat head screwdriver into the opening recess, then hinge the front cover up and away from the backplate.

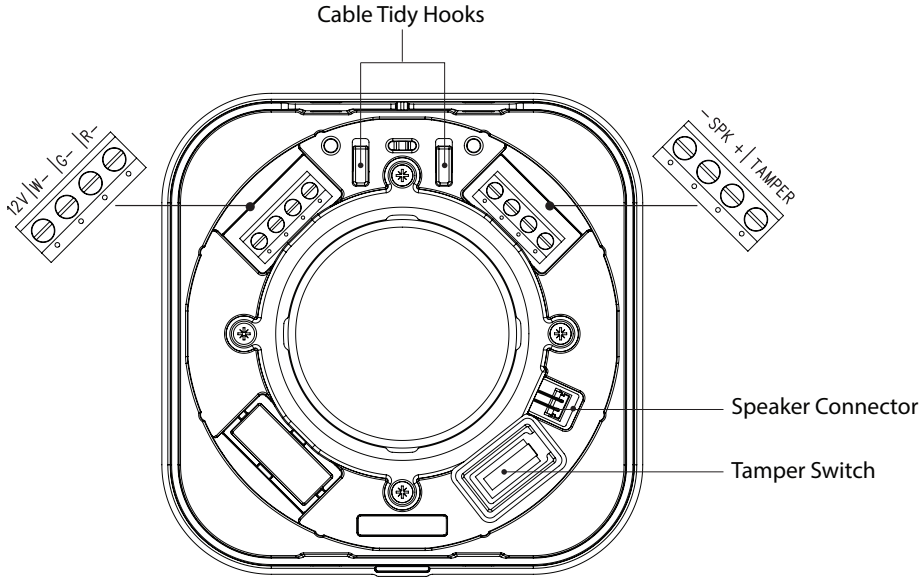




Four screw fixing holes and six cable entry locations are provided to aid mounting.



2 PCB and Connections



Terminal	Description
12V	12V supply for LEDs
W-	White LED control, 0V = ON
G-	Green LED control, 0V = ON
R-	Red LED control, 0V = ON
SPK - +	Speaker inputs, connect to speaker outputs on panel
TAMPER	Tamper terminals, connect to auxiliary tamper/ tamper input on panel

3 LED Control Examples

The **INT-LS-LED-C** has multiple LEDs in 3 colours: white, green and red.

Each of these may be illuminated by switching their input to 0V.

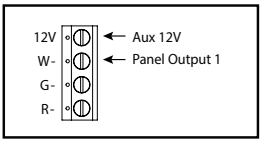
This provides a total of four colour possibilities as detailed below:

- White (Input W-)
- Green (Input G-)
- Red (Input R-)
- Yellow (Input R- & Input G-)

Below are some examples of how the coloured LEDs can be used when connected to programmable outputs on an Orisec Control Panel.

1. Switch white LEDs on when light level is low.

Connect the LED inputs on the **INT-LS-LED-C** to the following outputs on the Orisec control panel:



Program the Output Type to “Light Level”. Then select which device you want to measure the light level at (e.g., Keypad 1) and set the light threshold level (e.g., 10%).

When the light level at Keypad 1 falls below 10% the white LED will illuminate.

The control panel output is programmed as follows:

Output	Type	Attributes	Area
1	Light Level Keypad 1 10%	----------	1

An example of a more advanced scenario is as follows:

Output	Type	Attributes	Area
1	Chain Number 1	----------	1

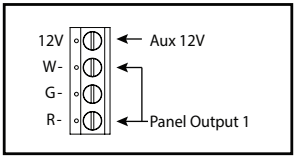
A ’Chain’ is used to control the operation of the panel output and is programmed as follows:

Chain	Chain details	Time Active	Area
1	Light Level Chain	30 Sec	1
	Light Level Keypad 1 10%	0 Sec Delete Link	
AND	Mimic Zone 5	0 Sec Delete Link	
AND	Control Timer 1	0 Sec Delete Link	

In the above example the white LED will illuminate when the light level of the keypad falls below 10% and Zone 5 (e.g., Hallway sensor) is active during the hours of 15:00 – 18:00 – Monday to Friday for a total of 30 seconds.

2. Fire Alarm indication with red & white LEDs

Connect the LED inputs on the **INT-LS-LED-C** to the following outputs on the Orisec control panel:



When the fire alarm is activated the red and white LEDs will illuminate. The red LED is used as indication of fire and the white LED can be used as additional lighting to aid users in low light conditions.

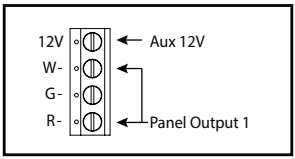
The control panel output is programmed as follows:

Output	Type		Attributes	Area
1	Systems Output	Fire Alarm	----------	1

3. Fire Alarm indication with flashing red & white LEDs

This could be used as a visual alarm indication for hard of hearing users.

Connect the LED inputs on the **INT-LS-LED-C** to the following outputs on the Orisec control panel:



When the fire alarm is activated the red and white LEDs will flash every second to warn the user the fire alarm has been triggered.

The control panel output is programmed as follows:

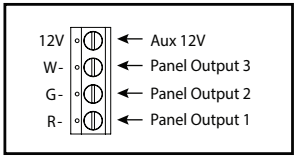
Output	Type		Attributes	Area
1	Chain Number	1	----------	1

A 'Chain' is used to control the operation of the panel output and is programmed as follows:

Chain	Chain details		Time Active	
1	Flashing Fire		0	Sec
	System Output	Fire Alarm		
AND	System Output	Flash 1 Sec		
	Add Link			

4. Armed status indication.

Connect the LED inputs on the **INT-LS-LED-C** to the following outputs on the Orisec control panel:



When the system is armed the red LED will illuminate for 15 seconds.
When the system is disarmed the green LED will illuminate for 15 seconds.
The white LED will illuminate whilst the system is in entry or exit mode.

The control panel outputs are programmed as follows:

Output	Type		Attributes	Area
1	Systems Output	Full Armed	2	1
2	Systems Output	Disarmed	2	1
3	Chain Number	1		1

Note: Attribute 2 (Pulse 2) is used to control the active duration of the output. Pulse 2 defaults to 15 seconds, but can be changed, refer to System Timers in the installation manual.

A ‘Chain’ is used to control the operation of panel output 3 and is programmed as follows:

Chain	Chain details		Time Active		Area		
1	In Entry OR Exit		0	Sec	1		
	System Output	In Entry	0	Sec			Delete Link
OR	System Output	In Exit	0	Sec			Delete Link

Specifications

Electrical

Supply Voltage:	9 - 15 VDC (13.7 V nominal)
Current Consumption:	
Green LEDs:	32mA
Red LEDs:	32mA
White LEDs:	42mA
Loudspeaker:	16Ω, 1W, Mylar Cone

Environmental

Operating Temperature:	-10°C to +55°C
Storage Temperature:	-20°C to +60°C
Max. Humidity:	95% non-condensing

Physical

Product Weight:	135g
Packed Weight:	150g
Dims: (hwd) mm	101 x 101 x 31
Material:	3mm ASA

Standards

Security

PD 6662:2017
EN 50131-1:2006+A3:2020
Grade 3, Class II

EMC

Conforms to European Union (EU) Electro-Magnetic Compatibility (EMC) Directive 2014/30/EU and EN 50130-4:2011+A1:2014
EMC Environment: Residential / Commercial / Light Industrial / Industrial

CE: You can view the product EC Declaration of Conformity here:
www.orisec.co.uk/compliance

WEEE Directive: 2012/19/EU Compliant: This symbol indicates that according to local laws and regulations, this product should not be disposed of as municipal/household waste. Instead, it should be disposed of at the appropriate collection points designated for the recycling of electrical and electronic equipment, or returned to Orisec upon purchase of new replacement products. This will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

RoHS

RoHS Directive: 2011/65/EU Compliant:
Orisec declares that this product complies with and conforms to RoHS legislation that it does not contain more than the agreed levels of: Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent chromium (Cr6+), Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE)

Manufacturer: Orisec Ltd, 1 St Crispin Way, Haslingden, Lancashire. BB4 4PW. United Kingdom.

Warranty

The INT-LS-LED-C is guaranteed against defects in material or faulty workmanship for a period of 2 years from the date of purchase.
Disclaimer: Orisec will not accept any liability based on a claim that the INT-LS-LED-C failed to perform correctly as it is a component part of an installation and not a complete intruder alarm system.

UK Based Technical Support:
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