



## Fire and CO Alarm Control Switch User Guide

**Model: RTHL**

Mains powered  
Hardwired interconnection  
Test and Hush/Locate



P/N: G-000079-00

## **Thank You for Purchasing this Kidde product**

Teach children how to respond to a fire and CO alarm and that they should never play with the unit. This product was designed specifically for use in a residential environment.

**NOTE:** Please thoroughly read this user guide and save the document for future reference and to pass on to any subsequent owner.

This document should be read in combination with associated alarm user guides.  
Images are representative only. Actual product may vary slightly.

**IMPORTANT:** Additional markings can be found on the back of the unit.

## **ENVIRONMENTAL PROTECTION**

Waste electrical products or equivalent should not be disposed of with household waste. Please recycle where facilities exist.  
Check with Local Authority or Supplier for recycling advice.



Product Support: 0800 917 0722

Please write down the below information and have this at hand when you call.

Date Code (on back): \_\_\_\_\_

Date of Purchase: \_\_\_\_\_

Where Purchased: \_\_\_\_\_

Date to Replace: \_\_\_\_\_

## **CONTENTS OF THIS USER GUIDE**

1. Introduction, Product Features and Specifications.....	4
2. Visual Indicators.....	5
3. Product Limitations.....	7
4. Installation Instructions .....	8
5. Operation.....	11
6. Service and Warranty.....	13

## **1. Introduction, Product Features and Specifications**

The Control Switch enables test and Hush of Kidde hardwire interconnected smoke, heat and Carbon Monoxide (CO) alarms from a central, easy to reach location.

Red and blue LEDs clearly indicate the type of alarm that has sounded so that you can take appropriate action.

The Control Switch may be connected at any convenient point in a new or existing Kidde hardwire interconnected alarm installation.

The Control Switch is equipped with a single button with the following functions:

- Test – All interconnected alarms in the system will sound an alarm
- Hush/Locate – Silence all alarms in the system except the initiating device

### **Temperature and humidity operating range**

- Temperature operating range: 0°C to 40°C
- Humidity operating range: Up to 93% RH, non-condensing
- Storage and transport conditions: -20°C to 50°C, 5-95% RH, non-condensing
- Power: 230 VAC, 50 Hz, 19 W

## 2. Visual Indicators

### 2.1 Fire and CO Alarm

State/Feature	Visual Indications	Action/Note
Smoke/Heat alarm	<b>Red LED:</b> Flashes 3 times, repeating <b>Duration:</b> As long as there is an alarm	
CO Alarm	<b>Blue LED:</b> Flashes 4 times, repeating. <b>Duration:</b> As long as there is an alarm	If both fire and CO alarm conditions occur, the fire alarm always takes priority over a CO alarm
Hush/Locate on Fire alarm	<b>Red LED:</b> On continuously <b>Duration:</b> 9 minutes	Push Test/Hush button to cancel
Hush/Locate on CO alarm	<b>Blue LED:</b> On continuously <b>Duration:</b> 9 minutes	Push Test/Hush button to cancel
Hush/Locate (Button pressed whilst in Hush/Locate)	<b>Red LED:</b> Off <b>Blue LED:</b> Off	

## 2.2 Test

State/Feature	LED	Action/Note
<b>Quick Test Function</b> Short Test – Test/Hush button pressed for less than 3 seconds	<b>Red &amp; Blue LED:</b> Flashes 3 times, repeating for 3 cycles	
<b>Walkaround Test Function</b> Long Test – Test/Hush button pressed for more than 3 seconds	<b>Red &amp; Blue LED:</b> On until test cancelled	Push Test/Hush button to cancel

## 2.3 Faults

State/Feature	LED	Action/Note
Any deviations in correct operation, e.g. button stuck	<b>Red &amp; Blue LED:</b> Flash every 3 seconds until fault is cleared	Control Switch will not function in this state. Investigate and contact Kidde Customer Service if further help required

### **3. Product Limitations**

This Control Switch can be interconnected with Kidde and Firex hardwired devices, including smoke, heat and CO alarms.

All hardwire interconnected devices must be connected to a single circuit.

#### **Network restrictions:**

Interconnects with up to 24 devices (of which 18 can be initiating) including smoke, CO and heat alarms:

- max 6 K4MCO alarms in the network
- max 2 RTHL units in the network
- max interconnect cable length is 300 meters for the whole network

This Control Switch is not designed to be interconnected with other manufacturer's products, unless otherwise specified.

#### 4. Installation Instructions

**⚠ DANGER:** ELECTRICAL SHOCK HAZARD. Turn off power at the main consumer unit or circuit breaker by removing the fuse or switching the circuit breaker to the OFF position and securing it.

**⚠ WARNING:** The installation of this device, associated alarms and accessories must comply with the current edition of BS 7671 Wiring Regulations and all appropriate prevailing local regional / national building regulations / codes of practice. The installation should be performed by a competent, qualified electrician. Failure to install this product correctly may expose the user to electric shock or fire risk hazards. This device is not rated as waterproof and must not be exposed to dripping or splashing. This device must be installed correctly in order to function. The electrical circuit used to power this device, associated alarms and accessories must be a permanent supply being a 230 volt AC 50 Hz circuit which cannot be turned off by a switch.

**⚠ WARNING:** This Control Switch and any interconnected AC device cannot be operated from power derived from a square wave, modified square wave or modified sine wave, inverter. These types of inverters are sometimes used in solar or wind derived power sources. These power sources produce high peak voltages that will damage the device.

**⚠ WARNING: An appropriate all-pole disconnection device shall be provided as part of the building installation.**

#### **4.1 Location**

This Control Switch should be located at the height specified in prevailing regulations and associated guidance for electrical switch accessories.

Consideration should be given to any potential users (e.g. to accommodate wheelchair users).

Position the control switch where it can be accessed easily, such as escape routes. The selected location should offer safe and convenient access for both routine testing and emergency use.

## 4.2 Procedure

1. Isolate the mains supply before starting work.
2. Install a suitable single-gang back box with a minimum depth of 25 mm to the wall.

**NOTE:** For metal back boxes, the minimum depth is 35 mm.

3. Using a  $1\text{ mm}^2$  (minimum) 3-core and earth cable (Type 6243Y or equivalent), connect the Control Switch to the most convenient Kidde or Firex alarm in the system as shown in Figures 1 & 2 below.
4. Fix the Control Switch to the back box using the screws provided.
5. Reconnect the mains supply and test the Control Switch as described in section 5: Operation

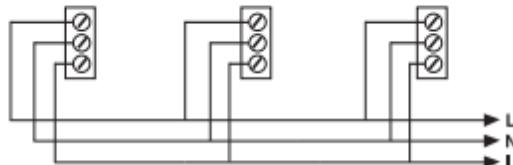
**NOTE:** This is a class II device and does not need to be earthed.

### Terminations:

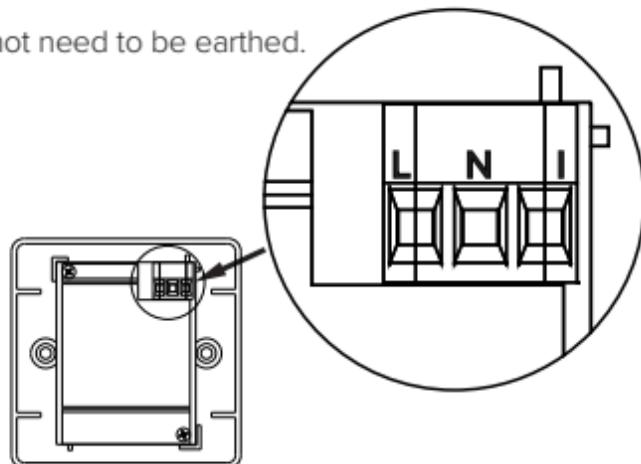
L – Live

N – Neutral

I – Interconnect



**FIGURE 1**



**FIGURE 2**

## **5. Operation**

### **5.1 Quick Test Function**

Briefly press the Control Switch Test/Hush button to confirm that all interconnected alarms sound. The Red and Blue LED will flash as indicated in Section 2 and the alarms will sound the smoke alarm pattern (3 long beeps and a 1.5 second pause) a minimum of 3 times if working correctly.

### **5.2 Walkaround Test Function**

This device has a test feature that continues to send an alarm signal to all interconnected alarms until cancelled. This provides time to walk around the property to check all alarms. Press and hold the Control Switch Test/Hush button for at least 3 seconds. Interconected alarms will start to sound the smoke alarm pattern (3 long beeps, a 1.5 second pause, and 3 long beeps repeating) when the button is released. The Red and Blue LED will illuminate on the RTHL as indicated in Section 2. Press the Control Switch Test/Hush button to cancel the Walkaround Test mode. Note that alarms may continue to sound for a few seconds after the Control Switch Test/Hush button has been pressed. This is normal operation. Consult the relevant alarm User Guides if any units fail to sound. These can be downloaded from the Kidde website.

### **5.3 Locate & Hush Function**

Always assume that any alarm is real and take appropriate action as given in the alarm User Guide, depending on if a Fire (3 long beeps, a 1.5 second pause, and 3 long beeps repeating) or CO (4 quick beeps, repeating every 5 seconds) is indicated. If alarms are sounding, you can press the Control Switch Test/Hush button to Hush all the alarms except the initiating device if safe to do so. This allows the source of any fire or CO event to be identified, and the property evacuated, or the source of any nuisance alarm to be identified. The Hush period is approximately 9 minutes. Hush can be cancelled by pressing the Control Switch Test/Hush button again and the alarms will continue to sound if still active.

**NOTE:** The initiating alarm can only be silenced by pressing the button on that unit.

## **6. Service and Warranty**

### **TEN YEAR LIMITED WARRANTY**

KIDDE warrants to the original purchaser that the device will be free from defects in material and workmanship or design under normal use and service for a period of ten years from the date of purchase. The obligation of KIDDE under this warranty is limited to repairing or replacing the device or any part which we find to be defective in material, workmanship or design (part replacement only, no installation), free of charge to the customer, upon presentation of the proof of purchase.

This warranty shall not apply to the device if it has been damaged, modified, abused or altered after the date of purchase or if it fails to operate due to improper maintenance or inadequate AC or DC electrical power.

**THE LIABILITY OF KIDDE OR ANY OF ITS PARENT OR SUBSIDIARY CORPORATIONS ARISING FROM THE SALE OF THIS DEVICE OR UNDER THE TERMS OF THIS LIMITED WARRANTY SHALL NOT IN ANY CASE EXCEED THE COST OF REPLACEMENT OF DEVICE AND, IN NO CASE, SHALL KIDDE OR ANY OF ITS PARENT OR SUBSIDIARY CORPORATIONS BE LIABLE FOR CONSEQUENTIAL LOSS OR DAMAGES RESULTING FROM THE FAILURE OF THE DEVICE OR FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE COMPANY'S NEGLIGENCE OR FAULT.**

This warranty does not affect your statutory rights. To make a claim:

If a defect in the product appears within the time frame stated, you are entitled to submit a warranty claim by returning your product to Kidde. For return address please contact KIDDE on the telephone numbers provided below or via the latest contact details given on our website.

When returning the product, please ensure it is properly packaged so that no damage occurs during transit.

Any postage and packaging expenses required to return the product to KIDDE or its authorised agents will be at your cost. Please provide the original or a copy of the proof of purchase. Also, please make sure you have included an explanation of the problem.



©2025 Kidde All Rights Reserved.  
QUESTIONS OR FOR MORE INFORMATION

Manufactured By:  
Walter Kidde Portable Equipment  
1016 Corporate Park Drive, Mebane, NC 27302, USA  
[www.kiddesafetyeurope.co.uk](http://www.kiddesafetyeurope.co.uk)  
Made in China

EU Authorised Representative  
KGS Fire & Security B.V.  
Kelvinstraat 7, 6003 DH Weert, NL

UK Contact Point  
Kidde Safety Europe Ltd  
3000 Hillswood Drive Chertsey, KT16 0RS UK  
Telephone: 0900 917 0722  
[www.kiddesafetyeurope.co.uk](http://www.kiddesafetyeurope.co.uk)