



# MULTISENSOR DUO

## QUICK INSTALLATION GUIDE v1.4

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### ELECTROMAGNETIC COMPATIBILITY

When operated according to manufacturer instructions, the product complies with all applicable CE harmonised standards from EMC Directive 2004/108/EC and Part 15 of the FCC Rules. The connections conducting HF signals must not be damaged or altered in any way by the user.

### TAKE CARE OF YOUR SAFETY

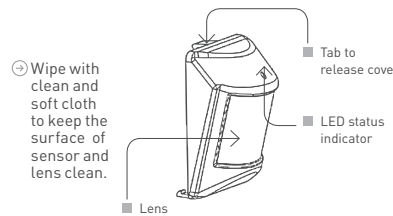
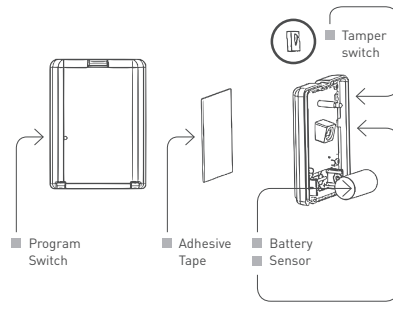
Display extreme caution when using ladders or steps, please follow manufacturer's instructions. Be careful when using hand and power tools and follow the manufacturer's guidelines when using them. Take care that the correct tools are used. Wear goggles or protective clothing where required.

## INTRODUCTION

Thanks for choosing Zipato Multisensor Duo for increasing your home security. This sensor is a Z-Wave enabled device (interoperable, two-way RF mesh networking technology) and is fully compatible with any Z-Wave enabled network, regardless of the manufacturer. Every mains powered Z-Wave enabled device acts as a signal repeater and multiple devices result in more possible transmission routes which helps eliminate "RF dead-spots".

Presence detector and temperature meter in one device. Zipato Multisensor Duo offers elaborate security and ambient sensing options. Multi-functional nature of this product allows you to detect motion, and measure room's temperature. When used with Zipato home automation controllers it can be part of any automation scenario created using Zipato Rule Creator. Accordingly it can be used to automatically trigger other Z-Wave devices when activated.

## OVERVIEW



### PACKAGE CONTENT

1PC	Multisensor Duo
1PC	Adhesive tape for sensor
1PC	CR123A Lithium battery
1PC	Quick installation guide

## FEATURES

- Motion and temperature sensors in one device
- New Z-Wave 500 series chip supports multichannel operation and higher data rates (9.6/40/100kbps)
- Can be used with various Z-Wave networks/controllers, regardless of the manufacturers
- Very low power consumption
- Low battery auto report
- LED indicator
- Over-the-air firmware update
- Easy installation

## SPECIFICATION

### TECHNICAL SPECS

PROTOCOL	Z-Wave Plus
POWER	CR123A battery
OPERATING VOLTAGE:	3V
OPERATING CURRENT	31.9 - 34.5 mA
STANDBY CURRENT	14 - 16 uA
OPERATING TEMPERATURE	-10°C ~ 40°C
TEMPERATURE DETECT RANGE	-20°C ~ 50°C
TEMPERATURE DETECT ACCURACY	+/- 2°C [MAX]
ILLUMINATION RANGE	0 - 100%
MOTION DETECT RANGE	2 - 10m
MOTION DETECT ANGLE	120°
RANGE	Up to 31 meter in line of sight (indoor use only)
WEIGHT	60g

DIMENSIONS	50 x 60 x 38mm
PACKAGE WEIGHT	114g
PACKAGE DIMENSIONS	117 x 60 x 60mm
REGULATIONS	EMC 2004/108/EC, R&TTE 1995/5/EC, LVD 2006/95/EC, FCC PART 15
WARRANTY	1 year

### MODEL AND FREQUENCIES

EUROPEAN UNION - EU version	vs-zp3102+eu / 868.42 MHz
UNITED STATES - US version	vs-zp3102+us / 908.42MHz
RUSSIA - RU version	vs-zp3102+ru / 869.02MHz
ISRAEL - IS version	vs-zp3102+is / 916.02MHz
AUSTRALIA - AU version	vs-zp3102+au / 921.42MHz
INDIA - IN version	vs-zp3102+in / 865.20MHz

## INSTALLATION

Notice: If you are installing the entire Z-Wave system for the first time, please refer to the installation guide of your Z-Wave Controller before installing Multisensor Duo.

- 1 | Release cover tab to open the cover.
- 2 | Insert a CR123A battery into the battery compartment, and LED will start to flash slowly, which means the sensor has not yet been included / added to Z-Wave network.
- 3 | Close the cover back.
- 4 | "INCLUSION" (ADDING TO) THE NETWORK: Put your Z-Wave Controller into "inclusion" mode, and follow the instructions to add Multisensor Duo to your controller. To get in the "inclusion" mode, the distance between sensor and controller should be up to 1 meter. Press the program switch of Multisensor Duo once. The LED on the sensor should stop flashing, if not, please try again.

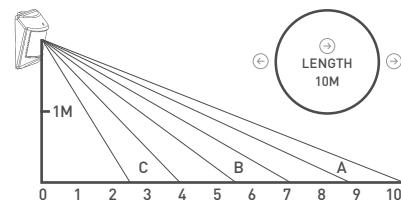
"EXCLUSION" (REMOVING FROM) THE NETWORK: Put your Z-Wave Controller into "exclusion" mode, and follow the instructions to remove the Multisensor Duo from your controller network. Press the program switch of Multisensor Duo once to be excluded. The LED on the Multisensor Duo should start to flash.

"ASSOCIATION": remove the cover of the Multisensor Duo to get into "Awake" mode, then put your Z-Wave Controller into "association" mode, and follow the instructions to associate the Multisensor Duo with the other device. Close the cover back after "association" is done, after which the Sensor will get into "Sleep" mode for power saving purposes. One association group is supported (5 nodes).

NOTE: "AWAKE" MODE: leave the "Sleep" mode remove the cover of Multisensor Duo, to allow your Z-Wave Controller to do "Association".

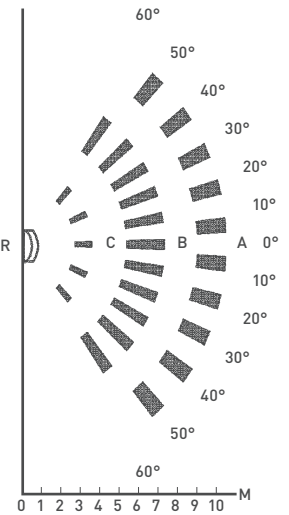
- 5 | Use adhesive tape to mount Multisensor Duo 2 meters above surface. To ensure proper operation, carefully direct Multisensor Duo to maximise room coverage.
- 6 | Configuration Command Class  
Parameter 1 : configuration value 1~255minutes (It's the "Re-Trigger" waiting time after the sensor is triggered. If any object passes sensor during this time, waiting time will be recalculated.)  
Default Value: 3 minutes

Notice: The user needs to initiate temperature reading manually, from controller, except when temperature changes 2 degrees (+/-), when sensor will automatically report readings to controller.



### SENSOR

### SENSOR



## OPERATION

- 1 | When you walk in front of Multisensor, it will send status "ON" (Basic Set, Value: 0xFF) to any associated nodes, and the LED will flash once.
- 2 | If no movement detected in three minutes after status is set to "ON", the sensor will send the status of "OFF" (Basic Set, Value: 0x00) to any associated nodes.
- 3 | Normal operation, the LED is off.
- 4 | Multisensor Duo is equipped with tamper switch. If the back cover is removed, sensor will send an alarm report (type: 01, level: 11) to the Z-Wave Controller, and the LED will turn "ON". Before returning the cover back, sensor will be under "Awake" mode.

## Z-WAVE COMMAND CLASSES

COMMAND\_CLASS\_ALARM\_V2  
COMMAND\_CLASS\_ASSOCIATION  
COMMAND\_CLASS\_BASIC  
COMMAND\_CLASS\_BATTERY  
COMMAND\_CLASS\_CONFIGURATION  
COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC  
COMMAND\_CLASS\_SENSOR\_BINARY  
COMMAND\_CLASS\_SENSOR\_MULTILEVEL\_V4  
COMMAND\_CLASS\_VERSION  
COMMAND\_CLASS\_WAKE\_UP\_V2

## TROUBLESHOOTING

Having trouble installing your new product? Zipato's website contains the latest user documentation and software updates for Zipato products and services: [www.zipato.com](http://www.zipato.com)

You can also find answers in the Zipato Community at: [community.zipato.com](http://community.zipato.com)

## LIMITED PRODUCT WARRANTY

### GENERAL TERMS

Nothing in this Limited Product Warranty affects your statutory rights as a consumer.

The Limited Product Warranty set forth below is given by Tri plus grupa d.o.o. (Europe) [herein referred to as "ZIPATO"]. This Limited Product Warranty is only effective upon presentation of the proof of purchase. Upon further request by ZIPATO, this warranty card has to be presented, too.

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This Limited Product Warranty applies to ZIPATO branded hardware products (collectively referred to as "ZIPATO Hardware Products") sold by ZIPATO (Europe), its European subsidiaries, affiliates, authorized resellers, or country distributors (collectively referred to as "ZIPATO Resellers") with this Limited Product Warranty. The term "ZIPATO Hardware Product" is limited to the hardware components and all its internal components including firmware. The term "ZIPATO Hardware Product" DOES NOT include any software applications or programs.

### GEOGRAPHICAL SCOPE OF THE LIMITED PRODUCT WARRANTY

This Limited Product Warranty is applicable to Hardware Products sold by Zipato Resellers in all countries listed at the beginning of this document under the heading "Countries in which this ZIPATO Limited Product Warranty applies". The Limited Product Warranty will be honored in any country where ZIPATO or its authorized service providers offer warranty service subject to the terms and conditions set forth in this Limited Product Warranty. However, warranty service availability and response times may vary from country to country and may also be subject to registration requirements.

### LIMITATION OF PRODUCT WARRANTY

ZIPATO warrants that the products described below under

normal use are free from material defects in materials and workmanship during the Limited Product Warranty Period set forth below ("Limited Product Warranty Period"), if the product is used and serviced in accordance with the user manual and other documentation provided to the purchaser at the time of purchase (or as amended from time to time).

ZIPATO does not warrant that the products will operate uninterrupted or error-free or that all deficiencies, errors, defects or non-conformities will be corrected.

This warranty shall not apply to problems resulting from: (a) unauthorized alterations or attachments; (b) negligence, abuse or misuse, including failure to operate the product in accordance with specifications or interface requirements; (c) improper handling; (d) failure of goods or services not obtained from ZIPATO or not subject to a then-effective ZIPATO warranty or maintenance agreement; (e) improper use or storage; or (f) fire, water, acts of God or other catastrophic events. This warranty shall also not apply to any particular product if any ZIPATO serial number has been removed or defaced in any way.

ZIPATO IS NOT RESPONSIBLE FOR DAMAGE THAT OCCURS AS A RESULT OF YOUR FAILURE TO FOLLOW THE INSTRUCTIONS FOR THE ZIPATO HARDWARE PRODUCT.

### LIMITED PRODUCT WARRANTY PERIOD

The Limited Product Warranty Period starts on the date of purchase from ZIPATO. Your dated sales or delivery receipt, showing the date of purchase of the product, is your proof of the purchase date. You may be required to provide proof of purchase as a condition of receiving warranty service. You are entitled to warranty service according to the terms and conditions of this document if a repair to your ZIPATO branded hardware is required within the Limited Product Warranty Period.

Other than in respect of products for domestic use [in particular those listed in the first and last boxes in the table below], this Limited Product Warranty extends only to the original end user purchaser of this ZIPATO Hardware Product and is not transferable to anyone who obtains ownership of the ZIPATO Hardware Product from the original end-user purchaser.

### PRODUCT WARRANTY PERIOD TABLE

PRODUCT TYPE	Multisensor Duo
PRODUCT WARRANTY PERIOD	One (1) year

### IMPORTANT

The content of "Product Type" listed above is subject to change; please refer to the [www.zipato.com](http://www.zipato.com) for latest update.

### PERFORMANCE OF THE LIMITED PRODUCT WARRANTY

If a product defect occurs, ZIPATO's sole obligation shall be to repair or replace any defective Zipato Hardware Product free of charge provided it is returned to an Authorized ZIPATO Service Centre during the Limited Warranty Period. Such repair or replacement will be rendered by ZIPATO at an Authorized ZIPATO Service Centre. All component parts or hardware products that are replaced under this Limited Product Warranty become the property of ZIPATO. The replacement part or product takes on the remaining Limited Warranty Period of the replaced part or product. The replacement product need not be new or of an identical make, model or part; ZIPATO may in its discretion replace the defective product (or any part thereof) with any reconditioned equivalent (or superior) product in all material respects to the defective product.

### WARRANTOR

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## DECLARATION OF CONFORMITY



The manufacturer Tri plus grupa d.o.o. declares under our sole responsibility that the product:

**Marketing model:** Multisensor Duo

**Regulatory model:** vs-zp3102+

**Trade/Brand name:** Zipato

is in conformity with the Low Voltage Directive 2006/95/EC, EMC Directive 2004/108/EC and R&TTE Directive 1995/5/EC and carries the CE marking accordingly.

The following harmonised standards were applied:

**R&TTE (1995/5/EC)**

EN 300 220-1: V2.4.1

EN 300 220-2: V2.4.1

EN 61000-3-2:2006 + A1:2009 + A2:2009, Class A

EN 62479:2010

EN 55022:2010 /AC:2011

**EMC (2004/108/EC)**

EN 301 489-1: V1.9.2

EN 301 489-3: V1.6.1

**LVD (2006/95/EC)**

EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011

Changes or modifications not expressly approved by Tri plus grupa d.o.o. for compliance could void the user's authority to operate the equipment.



THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.

Operation is subject to the following two conditions:

- 1 | this device may not cause harmful interference, and
- 2 | this device must accept any interference received, including interference that may cause undesired operation.

**NOTE: Changes or modifications not expressly approved by Zipato for compliance could void the user's authority to operate the equipment.** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### DISPOSING AND RECYCLING YOUR PRODUCT

When it reaches end of life, dispose of the product according to your local environmental laws, guidelines and regulations.

### BATTERY DISPOSAL

Dispose of batteries according to your local environmental laws, guidelines and regulations.



This symbol on the product or packaging means that according to local laws and regulations needs to be disposed of separately from household waste. Once this product has reached the end of its life, please take it to a collection point (recycle facilities) designated by your local authorities, some will accept your product for free or simply drop it off at your Zipato re-seller store. By recycling the product and its packaging in this manner you help to conserve the environment and protect human health. At Zipato, we understand and are committed to reducing any impact our operations and products may have on the environment. To minimize this impact Zipato designs and builds its products to be as environmentally friendly as possible, by using recyclable, low toxic materials in both products and packaging.

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