zipato

PIR MOTION SENSOR

QUICK INSTALLATION GUIDE



INTRODUCTION

Zipato PIR Motion Sensor is a passive infrared detector or physical sensor, the sensor doesn't emit any energy, but only passively receive and detect infrared radiation. Sensor sends messages via Z-Wave network to the Z-Wave main controller. In the communication between the PIR and 7-Wave main controller. PIR sensor can only send messages and not receive them. When sensor is triggered, it will send message to the main controller and associate devices to work through the Z-Wave main controller. Sensor isbattery powered, small and can be installed easily.

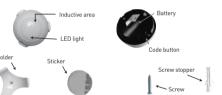
SPECIFICATION

Motion detection Measure the light sensitivity Compatible with 300 and 500 series Range: up to 50m outdoor: 30m indoor Power supply: CR123A x 1 Standby current: 16uA Battery life: 1 year Protocol: 7-Wave Plus Detection range: 7 meters Viewing angle: 110 degree Operation temperature: 0 - 40 °C Storage temperature: 0 - 60 °C Size: 45 x 45 x 48 mm

- Use passive IR sensor to detect what is mocing
- When the sensor is triggered, LED light will flash in the detection area When there are people or animals moving in detection area, PIR sensor will send
- alarm messages to the Z-Wave main controller
- . Compatible with any Z-Wave main controller

PRODUCT CONFIGURATION

TECHNICAL INFORMATION



PACKAGE CONTENT PIR Motion Sensor - 1pc Holder - 1pc Battery - 1pc Screw stopper - 2pcs

Probe - 1pc User manual - 1pc Screw - 2pcs

Fix the holder with screws

OPTION 1

and screw stopper

INSTALLATION STEPS

Holder installation

· Battery installation

. Fix PIR on the holder

HOLDER INSTALLATION

OPTION 2

sticker

FIX PIR ON THE HOLDER







Fix the holder with double-sides

DETECTION RANGE AND WORKING CONDITIONS

conditions. If there are false alarms, check for any moving objects withing the sensor's detection area, such as trees blowing in the wind, cars passing by, etc. False motion alarms may be caused by moving masses of air and heat as well. If sensor keeps on reporting the false alarms, install the sensor in another place. Work schematic diagram of PIR:

doors. Actual detection range of the sensor can be influenced by environment



WORKING CONDITIONS

If there is someone moving withing the detection area, alarm will be triggered and LED lights will flash in the inductive area at the same time.





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PIR Sensor has to be installed in a corner of the room or perpendicularly to the

LED STATUS	controller, or Z-Wave gateway.	supports: NOTIFICATION_REPORT_V4	2. ON / OFF DURATION	4. PIR DETECTION FUNCTION ENABLED / DISABLED
	Remove the sensor cover			This parameter can enable or disable the PIR sensor detecting function.
When sensor is triggered, LED flashes red once.	Make sure the sensor is powered	GROUP 4 allows sending sending Sensor Binary Report to associated devices in this	This parameter determines how long the associated devices should have ON status.	Function: Enabled / Disabled PIR function
When battery is installed, LED will flash red 5 times	4. Press the button for 10 seconds, LED will blink once	group. This group supports: SENSOR_BINARY_REPORT_V2	For instace, if this parameter is set to 30 (sec), the PIR sensor will send a BASIC_SET	
3. Quickly, triple click on the code button to add the PIR sensor to the Z-Wave	5. Release the button		command to associated device with valu BASIC_SET level if PIR sensor is triggered	Parameter size: 1 byte
network or delete PIR sensor		Parameter number: 1	and associated device will be turned on 30 seconds begore it's turned off. This	Parameter number: 4
4. Press the code button for 10 seconds, the PIR sensor will be restored to factory	WAKEUP MOTION DETECTOR	Parameter size: 1 byte	parameter value must be large as Parameter #. If user set this parameter to default	Available settings: 0 (disable) or 255 (enable)
default settings	You can press the button once to wake up the device and send wakeup notification to	Available settings: 8 ~ 255	by Configure CC, the parameter # will be set to default value.	Default setting: 255
5. In normal conditions, the LED light is off	controller. LED will blink once.	Default setting: 12	E ' ON OFF L ' U'	E AMBIENTILLINGUATION LINVERVE
6. Press the button once to wakeup the device and send wakeup notification to	ACCOCHTICALC (A	A DAVA MATER CONTENTION I	Function: ON / OFF duration setting	5. AMBIENT ILLUMINATION LUX LEVEL
controller, LED flashes red once	ASSOCIATIONS (Association Command Class Version 2)	ADVANCED CONFIGURATION	Parameter size: 2 byte	This parameter can set Lux value which determines when the light sensor is
ADDING TO Z-WAVE NETWORK	This are a second of a second of the second	The follwing information is for someone that has some experience in setting up a	Parameter number: 2 Available settings: 5~600 (seconds)	activated. If the ambient illumination level falls bellow this value and a person moves across or within the detection area. PIR sensor will send Z-Waye ON command (i.e.
ADDING TO 2-WAVE NETWORK	This sensor supports 4 association groups; each group suppoerts max 4 associated nodes. This has the effect that when the sensor is triggered, all devices associated	Z-Wave system or someone that has computer software running a Z-Wave	Available settings: 5-600 (seconds) Default setting: 30	BASIC set (value = parameter 3) to an associated device and activate it.
1. Remove the sensor cover	with the sensor will receive the relevant reports.	controller or Gateway.	Default setting: 50	BASIC_set (value = parameter 3) to an associated device and activate it.
2. Make sure the sensor is powered	with the sensor with receive the retevant reports.	Controller or Galeway.	3. BASIC SET LEVEL	Function: Lux Level Set
3. Set Z-Wave controller or Z-Wave Gateway into inclusion mode	GROUP 1 is lifeline service that is assigned to sensor status - Open/Close. It enables	1. SENSITIVITY LEVEL SETTING	BASIC_SET command will be sent when PIR sensor is triggered. The receiver will	Parameter size: 2 byte
4. Press the button 3 times within 1.5 seconds and the device will enter inclusion	the sensor to send reports and readings to Z-Wave controller or Z-Wave Gateway	1. SENSITIVITI ELVEE SETTINO	take it into consideration; for instance, if a lamp module is receiving the BASIC_SET	Parameter number: 5
mode. LED will flash on and off 5 times.	whenever the sensor is triggered. This group supports:	This parameter defines the sensitivity of PIR sensor. It's recommended to test the	command of which value is decisive as to how bright of dim level of lamp module	Available settings: 0~1000 (Lux)
mode. LED with tust of united.	NOTIFICATION REPORT V4	sensor with moevements from a farthest end of the coverage area at the first time	shall be.	Default setting: 100 (Lux)
REMOVING FROM Z-WAVE NETWORK	SENSOR BINARY REPORT V2	of use. If movements cannot be detected sensitively, simply adjust the sensitivity		below setting. 100 (Edit)
	SENSOR MULTILEVEL REPORT V7	level with this parameter. This parameter can be configured with the value of 8	Function: Basic Set Level	6. RE-TRIGGER INTERVAL SETTING
1. Remove the sensor cover	BATTERY_REPORT_DEVICE_RESET_LOCALLY_NOTIFICATION	through 255, where 8 means high sensitivity and 255 means low sensitivity.	Parameter size: 1 byte	This parameter can be used to adjust the interval of being re-triggered after the PIR
2. Make sure the sensor is powered		, , , , , , , , , , , , , , , , , , , ,	Parameter number: 2	sensor has been triggered. This parameter value must be less than Paramater #2.
3. Set Z-Wave controller or Z-Wave Gateway into exclusion mode	GROUP 2 allows sending control commands to associated devices such as relay	Function: Sensivity Level Setting	Available settings: 0,1 ~ 99 or 255 0 - OFF, Alarm cancelling or turning device off	If user sets this parameter to default by Configure CC, the parameter #2 will be set
Press the button 3 times within 1.5 seconds and the device will enter exclusion mode.	module, lighting, etc. This association group is configured through the advanced	Parameter size: 1 byte	1 ~ 99 or 255 - ON (Binary Switch Device)	to default value.
	parameters no. 2, 3, 5 and 8. This griup supports: BASIC_SET	Parameter number: 1	Dim level (Multilevel Switch Device)	
RESTORE TO DEFAULT SETTINGS		Available settings: 8 ~ 255	Default setting: 255	Function: Re-trigger interval setting
Reset procedure will delete all information on the Z-Wave network and Z-Wave	GROUP 3 allows sending notifications to associated devices int his group. This group	Default settings: 12		Parameter size: 1 byte
				!
5.	6.	7.	8.	9.

Parameter number: 6	Function: Lux Level Report	Binary Sensor Report Command:	BATTERY GET command. Once the sensor receives the command, it will return	EXTENT ALLOWED BY LOCAL LAW. THE REMEDIES IN THIS WARRANTY
Available settings: 1~8 (s)	Parameter size: 2 byte	binary Sensor Report Communa.	BATTERY_REPORT command. The motion sensor will send BATTERY_LEVEL =	STATEMENT ARE CUSTOMER'S SOLE AND EXCLUSIVE REMEDIES AGAINST
Default setting: 8	Parameter number: 9	Event present:	0xFF command to the Z-Wave controller to inform that the motion sensor is in dead	ZIPATO. THEY DO NOT, HOWEVER, AFFECT OR RESTRICT THE RIGHTS YOU HAVE
Default Setting: o	Available settings: 0~1000 (Lux)			AGAINST THE BUSINESS YOU BOUGHT A ZIPATO PRODUCT FROM. IN NO EVENT
T LIGHT STAIGED DOLLING INTERVAL		Command class: COMMAND_CLASS_SENSOR_BINARY	battery status, otherwise BATTERY_LEEL value range is 0% to 100%.	
7. LIGHT SENSOR POLLING INTERVAL	Default setting: 1	Command: SENSOR_BINARY_REPORT		WILL ZIPATO BE LIABLE FOR LOSS OF DATA OR FOR INDIRECT, SPECIAL,
This parameter can set the light sensor to measure ambient illumination level		Sensor type: SENSOR_MOTION	COMMAND CLASSES	INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFIT OR DATA), OR OTHER
interval time. NOTE: This value must be less than Wakeup Interval Time!	NOTIFICATION COMMAND CLASS	Value: 0xFF	This sensor supports following Command Classes:	DAMAGE, WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE. HOWEVER,
		· · · · · · · · · · · · · · · · · · ·	COMMAND_CLASS_ZWAVEPLUS_INFO (V2)	NOTHING IN THIS AGREEMENT LIMITS ZIPATO'S LIABILITY TO YOU (I) IN THE
Function: Light Sensor Polling Interval	Once the sensor detects a movement, it will send NOTIFICATION_REPORT and	Event clear:	COMMAND_CLASS_VERSION (V2)	EVENT OF DEATH OR PERSONAL INJURY TO THE EXTENT RESULTING FROM
Parameter size: 2 byte	SENSOR_BINARY_REPORT to the nodes of lifeline to inform there is an intrusion	Command class: COMMAND_CLASS_SENSOR_BINARY	COMMAND_CLASS_MANUFACTURER_SPECIFIC (V2)	ZIPATO'S NEGLIGENCE, OR (II) TO THE EXTENT RESULTING FROM ANY
Parameter number: 7	event. When the movement is stopped, NOTIFICATION_REPORT and SENSOR_BI-	Command: SENSOR_BINARY_REPORT	COMMAND_CLASS_DEVICE_RESET_LOCALLY (V1)	FRAUDULENT MISREPRESENTATION ON THE PART OF ZIPATO, OR (III) TO THE
Available settings: 60~3600 (seconds)	NARY_REPORT will be sent again to the nodes in lifeline. For compliant Z-Wave 300	Sensor type: SENSOR_MOTION	COMMAND CLASS POWERLEVEL (V1)	EXTENT ARISING UNDER PART 1 OF THE CONSUMER PROTECTION ACT 1987 OF
Default setting: 180 (s)	seires, there is also the Binary Sensor Command Class.	Value: 0x00		THE UNITED KINGDOM. SOME STATES OR COUNTRIES DO NOT ALLOW: (1) A
3			LIMITED PRODUCT WARRANTY	DISCLAIMER OF IMPLIED WARRANTIES; (2) A LIMITATION ON HOW LONG AN
8. LUX LEVEL FUNCTION ENABLE	Notification Report Command:	MULTILEVEL SENSOR		IMPLIED WARRANTY LASTS OR THE EXCLUSION; OR (3) LIMITATION OF
If this parameter is set to "1" and when Lux level is less than the value defined by			GENERAL TERMS	INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR CONSUMER PRODUCTS. IN
parameter #5, PIR sensor will send a BASIC SET command frame (i.e. BASIC SET	Event prsent:	PIR Motion Sensor supports ambient luminance meassurement, the scale is LUX.	Nothing in this Limited Product Warranty affects your statutory rights as a	SUCH STATES OR COUNTRIES, SOME EXCLUSIONS OR LIMITATIONS OF THIS
(value = parameter 3) to an associated device and activate it. If Lux level is greater than the	Command class: COMMAND CLASS NOTIFICAITON	And the default Multilevel sensor is luminance too. The settings of luminance	consumer	LIMITED WARRANTY MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY GIVES
value defined by parameter #5, PIR sensor will not send BASIC_SET command frame.	Command: NOTIFICTION REPORT	sensor measurement are listed under "Advanced Configuration"	The Limited Product Warranty set forth below is given by Tri plus grupa d.o.o.	YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS THAT MAY
value defined by parameter #3, Fix Sensor witchot send DASIG_SET command marine.	Notification type: NOTIFICATION TYPE HOME SECURITY	Sensor measurement are tisted under Advanced Configuration	(Europe) (herein referred to as "ZIPATO"). This Limited Product Warranty is only	VARY FROM STATE TO STATE OR FROM COUNTRY TO COUNTRY, YOU ARE ADVISED
Function: Lux Level Enable	Event: NOTIFICATION_EVENT_HOME_SECURITY_MOTION_DETECTION_	WAKEUP COMMAND CLASS	effective upon presentation of the proof of purchase. Upon further request by	TO CONSULT APPLICABLE STATE OR COUNTRY LAWS FOR A FULL DETERMINA-
Parameter size: 1 byte	UNKNOWN LOCATION	Majority of time sensor is in sleep status in order to conserve battery life.		TION OF YOUR RIGHTS.
Parameter size: 1 byte Parameter number: 8	UNKNOWN_EUCATION		ZIPATO, this warranty card has to be presented, too.	This Limited Product Warranty applies to ZIPATO branded hardware products
		The minimum wakeup interval is 300s.	EVACED TO EVADORACI VACE CARTILLY THIS I WITTER WARD WITH THE WARD	
Available sttings: 0, 1	Event clear:	The maximum wakeup interval is 16,777,200s (about 194 days)	EXCEPT AS EXPRESSLY SET FORTH IN THIS LIMITED WARRANTY, ZIPATO MAKES	(collectively referred to as "ZIPATO Hardware Products") sold by ZIPATO (Europe),
Default setting: 0	Command class: COMMAND_CLASS_NOTIFICAITON	Allowable interval among each wakeup interval is 60seconds, such as 360, 420, 480	NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED	its European subsidiaries, affiliates, authorized resellers, or country distributors
	Command: NOTIFICTION_REPORT	NOTE: The deault value is 12 hours. The value is longer, the battery life is greater.	WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR	(collectively referred to as "ZIPATO Resellers") with this Limited Product Warranty.
9. AMBIENT ILLUMINATION LUX LEVEL REPORT	Notification type: NOTIFICATION_TYPE_HOME_SECURITY		PURPOSE. ZIPATO EXPRESSLY DISCLAIMS ALL WARRANTIES NOT STATED IN	
This parameter defines by how much Lux level must change in Lux to be reported to	Event: NOTIFICATION_EVENT_HOME_SECURITY_NO_EVENT	BATTERY CHECK COMMAND:	THIS LIMITED WARRANTY. ANY IMPLIED WARRANTIES THAT MAY BE IMPOSED BY	The term "ZIPATO Hardware Product" is limited to the hardware components and
the main controller.		The users can also enquire the battery status of the motion sensor by sending	LAW ARE LIMITED IN DURATION TO THE LIMITED WARRANTY PERIOD. TO THE	all its internal components including firmware.
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10.	11.	12.	13.	14.

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

The term "ZIPATO Hardware Product" DOES NOT include any software applications

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.

or programs.

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 ZIPATO does not warrant that the products will operate uninterrupted or error-free

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.

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 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

number has been removed or defaced in any way.

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

This warranty shall also not apply to any particular product if any ZIPATO serial

ZIPATO IS NOT RESPONSIBLE FOR DAMAGÉ THAT OCCURS AS A RESULT OF YOUR

FAILURE TO FOLLOWTHE INSTRUCTIONS FOR THE ZIPATO HARDWARE

from the original end-user purchaser.

PRODUCT WARRANTY PERIOD

Product type: Water sensor Product warranty period: One (1) year

PRODUCT.

IMPORTANT The content of "Product Type" listed above is subject to change; please refer to the

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

Trade/Brand name: Zipato

Marketing model: PIR Motion Sensor Regulatory model: ne-nas-pd01z

EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013 Changes or modifications not expressly approved by Tri plus grupa d.o.o. for

EN 62479:2010

Fax +385 (0)1 4004 405

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 for any part thereofl with any reconditioned

equivalent for superior) product in all material respects to the defective product.

TEL +385 (0)1 4004 404

DECLARATION OF CONFORMITY

WARRANTOR

Baniavciceva 11

10 000 Zagreb

CROATIA

Tri plus grupa d.o.o.

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

This symbol on the product or packaging means that according

FN 300 220-1 V2.4.1:2012

EN 300 220-2 V2.4.1:2012

EN 301 489-1 V1.9.2 [2011-09]

EN 301 489-3 V1.6.1 [2013-08]

enviromental laws, guidelines and regulations.

to local laws and regulations needs to be disposed of separately from household

collection point (recycle facilites) designated by your local authorities, some will

recycling the product and its packaging in this manner you help to conserve the

accept your product for free or simply drop it off at your Zipato re-seller store. By

waste. Once this product has reached the end of its life, please take it to a

is in conformity with the standard(s) reckognized as giving presumption of

The following harmonized standards were applied:

DISPOSING AND RECYCLING YOUR PRODUCT

compliance with the essential requirements in the specified European Directive.

When it reaches end of life, dispose of the product according to your local

compliance could void the user's authority to operate the equipment.

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both products and packaging.

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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