50, avenue du Nouveau Monde
74300 Cluses
Tél. 04 50 96 83 79

Product Environmental Profile

Somfy TaHoma switch

Reference product

> Reference product

Somfy TaHoma switch

Ref 5153854

> Covered references

Range	Reference	EAN code	Name	description
STANDARD	1870594	3660849580292	TAHOMA SWITCH_P	TAHOMA SWITCH_Pro
STANDARD	1870600	3660849580353	TAHOMA SWITCH_P_G	TAHOMA SWITCH_Pro_UK plug
STANDARD	1870595	3660849580308	TAHOMA SWITCH_SC	TAHOMA SWITCH_Short Channels
OEM	1870696	3660849582586	TAHOMA SWITCH_OEM	TAHOMA SWITC-Pro_Generic OEM
STANDARD / RTS	1870602	3660849580377	TAHOMA SWITCH-RTS_P	TAHOMA SWITCH_RTS-PRO

> Functional unit

To allow from IP the bidirectional communication with smart home connected equipment using io, RTS and Zigbee 3.0 protocols, 24 hours a day for a 10-year lifetime.

This PEP is representative of a product distributed and used worldwide.

Materials and substances

All useful measures have been adopted to ensure that the materials used in the composition of the product do not contain any substances banned by the legislation in force at the time of marketing.

Plastics			Metals			Other		
	g	%		g	%		g	%
PC	68,6	15,3%	**Copper wire**	7,84	1,8%	**Glass fibre**	39,80	8,8%
ABS	52,4	11,6%	**Copper**	6,21	1,3%	**Other**	2,71	0,6%
PVC	31,4	7,0%	**Alumine**	2,95	0,7%			
Epoxy resin	17,10	3,8%	**Nickel**	2,85	0,6%			
Silicon rubber	14,90	3,3%	**Tin**	1,92	0,5%			
Other	15,35	3,4%	**Other**	5,52	1,2%			
						Packaging		
						Cardboard	120,0	26,7%
						Paper	60,2	13,4%
Total mass of reference flow: 446g								
Estimated recyclable content: 31%								

> CHEMICAL SUBSTANCES

The products covered by this PEP comply with REACH regulation and RoHS directive.

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Manufacturing

The devices covered in this PEP are manufactured in a production that has adopted an environmental management approach.

Distribution

The packaging is 100% recyclable. Paper is 100% recycled fibers and cardboard is minimum 50% recycled fibers. Packaging is continuously improved by reducing the amount and using a maximum of recycled material.

Installation

> Installation process

There is no installation process because the product must be placed on a surface and does not require any special mounting.
It is connected to the electrical network with the supplied power adapter and connected to the IP internet network via wifi.

Use

> Use scenario

This is an Active product from category 2. For the considered scenario the product has an active power of 0.943W in typical use during 100% of the time. This corresponds to an energy consumption of 82.6kWh for the lifetime of 10 years.

> Energy model of the use phase

European electricity mix

> Additional information

As an indication, an estimate of the environmental impact on the global warming indicator was made based on the energy consumption related to data storage on Somfy's IT servers during the reference lifespan. A value of 0.75 kg CO2 equivalent was thus calculated but is not considered in the table of results. Energy consumption of data transfers over the internet have not been estimated. The product is mainly controlled with a smartphone, but the environmental impacts associated with it were excluded from the scope of the study.

End of life

> End-of-life scenario

At the end of its life, this product requires specific treatment in a specialized facility for the reprocessing of electrical and electronic waste.

Considering the complexity and the lack of knowledge of the electric and electronic recycling channel and processes all around the world, a landfill treatment is considered. For more information on the WEEE channels specific to your country, please contact your local representative.

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Environmental impacts

Evaluation of the environmental impact covers the following life cycle stages: manufacturing, distribution, installation, use and end of life.
All calculations are done with EIME© software version v5.9.1 and CODDE-2020-12 database.

Indicators	Global	Unit	Manufacturing	Distribution	Installation	Usage	End of Life
Global warming	6,79E+01	kg.equivalent. CO2	2,82E+01	1,38E-01	2,45E-01	3,93E+01	3,41E-02
Ozone depletion	6,29E-06	kg.equivalent. CFC-11	3,73E-06	2,37E-10	6,23E-10	2,56E-06	8,70E-10
Acidification of soil and water	2,04E-01	kg.equivalent. SO2	3,62E-02	3,92E-03	5,54E-05	1,64E-01	1,30E-04
Water eutrophication	2,09E-02	kg.equivalent. P04 3-	1,00E-02	3,86E-04	4,44E-04	9,89E-03	1,48E-04
Photochemical Ozone formation	1,29E-02	kg.equivalent. C2H4	3,59E-03	1,94E-04	5,89E-05	9,00E-03	1,01E-05
Depletion of abiotic resources - elements	5,18E-03	kg.equivalent. Sb	5,18E-03	5,00E-09	5,18E-10	3,41E-06	2,19E-09
Depletion of abiotic resources fossil fuelss	7,31E+02	MJ	2,83E+02	1,76E+00	1,56E-01	4,46E+02	3,32E-01
Water pollution	4,38E+03	m3	2,72E+03	2,06E+01	1,31E+01	1,62E+03	3,85E+00
Air pollution	3,87E+03	m3	2,16E+03	1,89E+01	1,60E+00	1,69E+03	4,04E+00
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	1,11E+02	MJ	1,17E+01	2,26E-03	8,88E-04	9,97E+01	9,34E-03
Use of renewable primary energy resources used as raw materials	3,60E-01	MJ	3,60E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1,12E+02	MJ	1,21E+01	2,26E-03	8,88E-04	9,97E+01	9,34E-03
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	9,93E+02	MJ	3,07E+02	1,76E+00	1,70E-01	6,85E+02	3,62E-01
Use of non-renewable primary energy resources used as raw materials	6,55E+00	MJ	6,55E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1,00E+03	MJ	3,13E+02	1,76E+00	1,70E-01	6,85E+02	3,62E-01
Use of secondary materials	1,38E-01	kg	1,38E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of renewable secondary fuels	0,00E+00	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of non-renewable secondary fuels	0,00E+00	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Net use of fresh water	1,43E+02	m3	5,70E-01	1,07E-05	1,25E-05	1,42E+02	3,00E-05
Hazardous waste disposed of	8,17E+01	kg	8,16E+01	0,00E+00	1,76E-04	2,05E-02	1,51E-04
Non-hazardous waste disposed of	1,54E+02	kg	7,32E+00	4,26E-03	1,83E-01	1,46E+02	3,17E-01
Radioactive waste disposed of	1,01E-01	kg	2,98E-03	2,96E-06	1,31E-06	9,78E-02	1,09E-05
Components for re-use	0,00E+00	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	0,00E+00	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for energy recovery	0,00E+00	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy	1,43E-02	MJ by energy vector	1,43E-03	0,00E+00	1,29E-02	0,00E+00	0,00E+00
Total use of primary energy during the life cycle	1,11E+03	MJ	3,25E+02	1,77E+00	1,71E-01	7,84E+02	3,71E-01

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Accreditation number: VH18	Programme information: **www.pep-ecopassport.org**
Date of issue: 09-2021	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010 Internal ❒ External ☒ Bureau Veritas LCIE	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)	
PEP are compliant with XP C08-100-1: 2016 The elements of the present PEP cannot be compared with elements from another programme.	
Document in compliance with ISO 14025: 2010 "Environmental labels and declarations. Type III environmental declarations	
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