

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

Product Environmental Profil
Sonesse 28 WF RTS, Sonesse 28 WF ZIGBEE
with power supply



Reference product



> Reference product

Sonesse 28 WF RTS

Réf. 1241230

> Functional unit

Ensure the closing action by performing 10 000 operating cycles, on a reference service life of 15 years, with a torque of 1.1 Nm, on a length of 2 meters, corresponding to 23 winding turns per half-cycle, with a pulley diameter of 28 mm. If the internal blind performs orientations, then the number of orientation cycles is 20 000.

> Functional unit

Sonesse28 WF RTS PACK, 1241230

Sonesse 28 WF Zigbee PACK, 124175



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	
	%		%		%
ABS	5.4	Steel	16.3	Glass fiber	3.4
PA 6.6	5.3	Aluminium	11.4	Other	0.4
PC	3.9	Copper	10.0		
Other	1.2	Zamak	2.0		
		Zinc	1.7		
		Other	0.2	Packaging	
				Cardboard	12.5
				Paper	26.0
Total mass of the reference flow : 983.5g					
Estimated recycled content : 61.1%					

> CHEMICAL SUBSTANCES

The product covered by this PEP comply with REACH regulation and RoHS directive 2011/65/EU, 2015/863 et 201/2102.



— Manufacturing

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

> Energy model

Chinese Mix



— Distribution

> Packaging is continuously improved by reducing the amount and using a maximum of recycled materials

> The unit pack has been modeled here. It is made up of:

- 100% recycled fiber paper instructions
- cardboard with a minimum of 50% recycled fibers



— Installation

> Installation elements

There is no element included in this phase.

> Installation processes

There is no installation process

> Energy model

Not applicable



— Use

For the considered scenario, the product has a power of 8.10W in active mode during 0.17% of the time and a standby power of 0.074W during 99.83% of the time. This corresponds to an energy consumption of 11.45 kWh for the lifetime of 15 years.

> **Energy model of the use phase:** Chinese mix

> **Consumables and maintenance:** None



— End of life

> Typical transport conditions

Considering the complexity of the electric and electronic recycling channel and our lack of knowledge about the end-of-life processes implemented all around the world, we considered:

- 1 000 km of transport.
- A waste pretreatment of electrical and electronic equipment, including dismantling and material separation
- A waste incineration of electrical and electronic equipment.

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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 EIME© v5.9.1 and CODDE 2020-12.

Indicateurs	Unité	Global	Fabrication	Distribution	Installation	Utilisation	Fin de vie
Acidification potential of soil and water	Kg eq. SO ₂	4.58E-02	2.40E-02	8.57E-03	1.22E-04	1.26E-02	4.65E-04
Abiotic depletion (elements. ultimate reserves)	Kg eq. Antimoine	2.48E-04	2.48E-04	1.09E-08	1.26E-09	5.11E-08	2.83E-09
Abiotic depletion (fossil fuels)	MJ	2.56E+02	7.49E+01	3.84E+00	3.13E-01	1.76E+02	8.00E-01
Air pollution	m ³	2.66E+03	1.39E+03	4.14E+01	4.00E+00	1.21E+03	1.43E+01
Eutrophication	kg eq. PO ₄	1.11E-02	5.67E-03	8.45E-04	7.42E-04	3.33E-03	5.18E-04
Global Warming	kg eq. CO ₂	2.16E+01	7.12E+00	3.02E-01	4.38E-01	1.16E+01	2.10E+00
Ozone layer depletion	kg eq. CFC-11	6.64E-06	6.54E-06	5.18E-10	1.16E-09	9.27E-08	5.04E-09
Photochemical oxidation	kg eq. ethylene	3.75E-03	1.71E-03	4.25E-04	1.05E-04	1.49E-03	2.65E-05
Water pollution	m ³	1.39E+03	6.83E+02	4.50E+01	2.14E+01	5.79E+02	5.97E+01
Total Primary Energy	MJ	2.99E+02	1.04E+02	3.87E+00	3.45E-01	1.91E+02	1.06E+00
Total use of renewable primary energy resources	MJ	2.17E+01	1.20E+01	4.94E-03	3.29E-03	9.78E+00	1.09E-03
Total use of non-renewable primary energy resources	MJ	2.78E+02	9.16E+01	3.86E+00	3.41E-01	1.81E+02	1.09E-03
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.98E+01	1.00E+01	4.94E-03	3.29E-03	9.78E+00	0.00E+00
Use of renewable primary energy resources used as raw material	MJ	1.95E+00	1.95E+00	0.00E+00	0.00E+00	0.00E+00	1.05E+00
Use of nonrenewable primary energy excluding nonrenewable primary energy used as raw material	MJ	2.72E+02	8.57E+01	3.86E+00	3.41E-01	1.81E+02	0.00E+00
Use of nonrenewable primary energy resources used as raw material	MJ	5.90E+00	5.90E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of nonrenewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of secondary material	kg	4.63E-01	4.63E-01	0.00E+00	0.00E+00	0.00E+00	7.70E-04
Net use of fresh water	m ³	5.05E-01	4.91E-01	2.34E-05	3.67E-05	1.30E-02	1.35E+00
Hazardous waste disposed	kg	1.56E+01	1.39E+01	0.00E+00	3.08E-04	3.76E-01	3.54E-03
Non hazardous waste disposed	kg	9.62E+00	7.14E+00	9.31E-03	3.51E-01	2.11E+00	4.88E-06
Non hazardous waste disposed	kg	1.18E-03	1.10E-03	6.47E-06	4.26E-06	6.96E-05	0.00E+00
Components for reuse	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported Energy	MJ	6.79E-02	1.47E-02	0.00E+00	0.00E+00	5.33E-02	1.09E-03

> Here are the impact of the B modul.

Indicateurs	Unité	Phase d'utilisation	B1	B2	B3	B4	B5	B6	B7
Acidification potential of soil and water	kg SO2 eq	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-02	0.00E+00
Abiotic depletion (elements. ultimate reserves)	Kg eq. Antimoine	5.11E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-08	0.00E+00
Abiotic depletion (fossil fuels)	MJ	1.76E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E+02	0.00E+00
Air pollution	m ³	1.21E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E+03	0.00E+00
Eutrophication	kg PO4-- eq	3.33E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-03	0.00E+00
Global Warming	kg CO2 eq.	1.16E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E+01	0.00E+00
Ozone layer depletion	kg CFC-11 eq.	9.27E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.27E-08	0.00E+00
Photochemical oxidation	kg ethylene eq.	1.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-03	0.00E+00
Water pollution	m ³	5.79E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E+02	0.00E+00
Total Primary Energy	MJ	1.91E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E+02	0.00E+00
Total use of renewable primary energy resources	MJ	9.78E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E+00	0.00E+00
Total use of non-renewable primary energy resources	MJ	1.81E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E+02	0.00E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	9.78E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E+00	0.00E+00
Use of renewable primary energy resources used as raw material	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of nonrenewable primary energy excluding nonrenewable primary energy used as raw material	MJ	1.81E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E+02	0.00E+00
Use of nonrenewable primary energy resources used as raw material	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of nonrenewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of secondary material	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	m ³	1.30E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-02	0.00E+00
Hazardous waste disposed	kg	3.76E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.76E-01	0.00E+00
Non hazardous waste disposed	kg	2.11E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E+00	0.00E+00
Non hazardous waste disposed	kg	6.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05	0.00E+00
Components for reuse	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported Energy	MJ	5.33E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.33E-02	0.00E+00

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> Those impacts are only applicable to the references on page 1.

> Extrapolation rule

For each phase of the life cycle, there is an extrapolation factor. To obtain the impacts of the other product, you need to multiply by the specific extrapolation factor.

	Manufacturing	Distribution	Installation	Use	End of life	Example for total Global warming (kg éq, CO2)
Sonesse 28 ZB	1.46	0,80	1,00	0.79	1.02	20.8
Sonesse 28 RTS (REF)	1.00	1.00	1.00	1.00	1.00	21.6

Registration number : SOMF-00070-V01.01-EN	Drafting Rules: PCR-ed3-EN-2015 04 02 Supplemented by PSR-0006-ed1.1-FR-2015 10 16
Accreditation number: VH18	Programme information: www.pep-ecopassport.org
Date of issue: 02-2022	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010 Internal <input type="checkbox"/> External <input checked="" type="checkbox"/> 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 program.	
Document in compliance with ISO 14025: 2010 "Environmental labels and declarations. Type III environmental declarations	
Somfy contact: Pierre HOGUET, Ecodesign Engineer, pierre.hoguet@somfy.com	

