

## Product Environmental Profil

### Wind sensor EOLIS 3D WF io



**Acteur reconnu de l'habitat depuis plus de 50 ans**, SOMFY agit pour réduire de 50% ses émissions de carbone d'ici 2030 et aide ainsi ses clients et partenaires dans leurs démarches environnementales.

Nos actions pour réduire notre bilan carbone :

**PROPOSER DES PRODUITS ÉCO-CONÇUS\***, AYANT UN IMPACT ENVIRONNEMENTAL RÉDUIT TOUT AU LONG DE LEUR CYCLE DE VIE

**PROPOSER DES SOLUTIONS QUI AMÉLIORENT L'EFFICACITÉ ÉNERGÉTIQUE** DES BÂTIMENTS ET LIMITENT AINSI LES ÉMISSIONS DE CO<sub>2</sub>.

*[1]. Démarche d'éco-conception Somfy, identifiée par le label ACT FOR GREEN qui vise à réduire l'impact environnemental des produits tout au long de leur cycle de vie, de l'extraction des matières premières à la fin de vie, en plaçant les exigences au-dessus des réglementations en vigueur.*



## — Reference product



### > Reference product

EOLIS 3D WF io Black

Réf. **9016354**

### > Functional unit

To control blinds equipped with an io-homecontrol® motor during a lifetime of 10 years

### > References covered

Eolis 3D Wirefree IO Noir, 9016354

Eolis 3D Wirefree IO Bronzal, 9016353

Eolis 3D Wirefree IO Blanc, 9016355

Eolis 3D Wirefree IO Blanc OEM, 1816090



## — 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	
	%		%		%
<b>ABS</b>	24.0	<b>Zinc</b>	2.9	<b>Manganese dioxide</b>	6.7
<b>PP</b>	11.1	<b>Steel</b>	2.4	<b>Water</b>	1.6
<b>PELLD</b>	2.2	<b>Magnet</b>	1.0	<b>Glass fiber</b>	1.4
<b>Epoxy resin</b>	0.9	<b>Copper</b>	0.4	<b>Other</b>	2.1
<b>PE</b>	0.8	<b>Brass</b>	0.3	<b>Sum</b>	11.8
<b>Other</b>	0.7	<b>Other</b>	1.0	Emballage	
<b>Sum</b>	39.7	<b>Sum</b>	8.0	<b>Cardboard</b>	13.1
				<b>Paper</b>	27.4
				<b>Total</b>	40.5
Total mass of the reference product : 143g					
Estimated recyclable content : 61.2%					

### > 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

Tunisian 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

**This product is an autonomous product from category 2 (active product). It's powered by a battery and need two battery in order to cover all its life cycle of 10 years.**

> **Energy model of the use phase:** None

> **Consumables and maintenance:** 1 battery AAA (first battery is delivered with the product, the second is not).

Batteries need to be collected and bring to a collection point for the end-of-life treatment.



## — 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.



## — 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© v5.9.3 and CODDE 2022-01.

Indicators	Units	Global	Manufacturing	Distribution	Installation	Use	End of life
<b>Acidification potential of soil and water</b>	Kg eq. SO <sub>2</sub>	4.47e-3	3.14e-3	1.22e-3	2.43e-5	6.40e-5	2.86e-5
<b>Abiotic depletion (elements. ultimate reserves)</b>	Kg eq. Antimoine	1.28e-4	1.21e-4	1.66e-9	3.10e-10	6.36e-6	4.41e-10
<b>Abiotic depletion (fossil fuels)</b>	MJ	1.68e+1	1.54e+1	5.82e-1	4.49e-2	6.46e-1	6.08e-2
<b>Air pollution</b>	m <sup>3</sup>	1.34e+2	1.09e+2	5.95e+0	1.16e+0	1.65e+1	1.04e+0
<b>Eutrophication</b>	kg eq. PO <sub>4</sub>	1.03e-3	7.66e-4	1.22e-4	8.39e-5	2.17e-5	3.85e-5
<b>Global Warming</b>	kg eq. CO <sub>2</sub>	1.70e+0	1.48e+0	4.55e-2	6.57e-2	7.19e-2	4.37e-2
<b>Ozone layer depletion</b>	kg eq. CFC-11	1.38e-7	1.27e-7	7.88e-11	1.96e-10	1.03e-8	2.68e-10
<b>Photochemical oxidation</b>	kg eq. ethylene	4.23e-4	3.39e-4	6.07e-5	1.52e-5	5.92e-6	2.11e-6
<b>Water pollution</b>	m <sup>3</sup>	1.91e+2	1.78e+2	6.81e+0	1.93e+0	2.92e+0	1.62e+0
<b>Total Primary Energy</b>	MJ	2.23e+1	2.06e+1	5.85e-1	5.22e-2	9.99e-1	7.36e-2
<b>Total use of renewable primary energy resources</b>	MJ	1.99e+0	1.99e+0	7.50e-4	1.37e-3	1.45e-3	1.92e-3
<b>Total use of non-renewable primary energy resources</b>	MJ	2.03e+1	1.86e+1	5.84e-1	5.08e-2	9.97e-1	7.16e-2
<b>Use of renewable primary energy excluding renewable primary energy used as raw material</b>	MJ	1.93e+0	1.93e+0	7.50e-4	1.37e-3	1.45e-3	1.92e-3
<b>Use of renewable primary energy resources used as raw material</b>	MJ	6.12e-2	6.12e-2	0.00e+0	0.00e+0	0.00e+0	0.00e+0
<b>Use of nonrenewable primary energy excluding nonrenewable primary energy used as raw material</b>	MJ	1.77e+1	1.60e+1	5.84e-1	5.08e-2	9.75e-1	7.16e-2
<b>Use of nonrenewable primary energy resources used as raw material</b>	MJ	2.64e+0	2.61e+0	0.00e+0	0.00e+0	2.21e-2	0.00e+0
<b>Use of nonrenewable secondary fuels</b>	MJ	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
<b>Use of renewable secondary fuels</b>	MJ	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
<b>Use of secondary material</b>	kg	6.62e-2	6.62e-2	0.00e+0	0.00e+0	0.00e+0	0.00e+0
<b>Net use of fresh water</b>	m <sup>3</sup>	2.50e-1	2.49e-1	3.55e-6	1.31e-5	1.03e-3	2.01e-5
<b>Hazardous waste disposed</b>	kg	1.83e+0	1.79e+0	0.00e+0	4.33e-5	1.42e-2	2.47e-2
<b>Non hazardous waste disposed</b>	kg	1.12e+0	9.80e-1	1.41e-3	6.69e-2	1.78e-3	6.55e-2
<b>Non hazardous waste disposed</b>	kg	3.16e-4	3.09e-4	9.84e-7	1.63e-6	1.24e-6	2.29e-6
<b>Components for reuse</b>	kg	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
<b>Materials for recycling</b>	kg	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0	0.00e+0
<b>Materials for energy recovery</b>	kg	5.32e-11	5.32e-11	0.00e+0	0.00e+0	0.00e+0	0.00e+0
<b>Exported Energy</b>	MJ	1.18e-1	9.42e-2	0.00e+0	2.41e-2	0.00e+0	0.00e+0

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> Here are the impacts of the B module.

Indicators	Units	Use phase	B1	B2	B3	B4	B5	B6	B7
Acidification potential of soil and water	kg SO2 eq	6.40e-5	0.00E+00	0.00E+00	0.00E+00	6.40e-5	0.00E+00	0.00E+00	0.00E+00
Abiotic depletion (elements. ultimate reserves)	Kg eq. Antimoine	6.36e-6	0.00E+00	0.00E+00	0.00E+00	6.36e-6	0.00E+00	0.00E+00	0.00E+00
Abiotic depletion (fossil fuels)	MJ	6.46e-1	0.00E+00	0.00E+00	0.00E+00	6.46e-1	0.00E+00	0.00E+00	0.00E+00
Air pollution	m³	1.65e+1	0.00E+00	0.00E+00	0.00E+00	1.65e+1	0.00E+00	0.00E+00	0.00E+00
Eutrophication	kg PO4-- eq	2.17e-5	0.00E+00	0.00E+00	0.00E+00	2.17e-5	0.00E+00	0.00E+00	0.00E+00
Global Warming	kg CO2 eq.	7.19e-2	0.00E+00	0.00E+00	0.00E+00	7.19e-2	0.00E+00	0.00E+00	0.00E+00
Ozone layer depletion	kg CFC-11 eq.	1.03e-8	0.00E+00	0.00E+00	0.00E+00	1.03e-8	0.00E+00	0.00E+00	0.00E+00
Photochemical oxidation	kg ethylene eq.	5.92e-6	0.00E+00	0.00E+00	0.00E+00	5.92e-6	0.00E+00	0.00E+00	0.00E+00
Water pollution	m³	2.92e+0	0.00E+00	0.00E+00	0.00E+00	2.92e+0	0.00E+00	0.00E+00	0.00E+00
Total Primary Energy	MJ	9.99e-1	0.00E+00	0.00E+00	0.00E+00	9.99e-1	0.00E+00	0.00E+00	0.00E+00
Total use of renewable primary energy resources	MJ	1.45e-3	0.00E+00	0.00E+00	0.00E+00	1.45e-3	0.00E+00	0.00E+00	0.00E+00
Total use of non-renewable primary energy resources	MJ	9.97e-1	0.00E+00	0.00E+00	0.00E+00	9.97e-1	0.00E+00	0.00E+00	0.00E+00
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.45e-3	0.00E+00	0.00E+00	0.00E+00	1.45e-3	0.00E+00	0.00E+00	0.00E+00
Use of renewable primary energy resources used as raw material	MJ	0.00e+0	0.00E+00	0.00E+00	0.00E+00	0.00e+0	0.00E+00	0.00E+00	0.00E+00
Use of nonrenewable primary energy excluding nonrenewable primary energy used as raw material	MJ	9.75e-1	0.00E+00	0.00E+00	0.00E+00	9.75e-1	0.00E+00	0.00E+00	0.00E+00
Use of nonrenewable primary energy resources used as raw material	MJ	2.21e-2	0.00E+00	0.00E+00	0.00E+00	2.21e-2	0.00E+00	0.00E+00	0.00E+00
Use of nonrenewable secondary fuels	MJ	0.00e+0	0.00E+00	0.00E+00	0.00E+00	0.00e+0	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	MJ	0.00e+0	0.00E+00	0.00E+00	0.00E+00	0.00e+0	0.00E+00	0.00E+00	0.00E+00
Use of secondary material	kg	0.00e+0	0.00E+00	0.00E+00	0.00E+00	0.00e+0	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	m3	1.03e-3	0.00E+00	0.00E+00	0.00E+00	1.03e-3	0.00E+00	0.00E+00	0.00E+00
Hazardous waste disposed	kg	1.42e-2	0.00E+00	0.00E+00	0.00E+00	1.42e-2	0.00E+00	0.00E+00	0.00E+00
Non hazardous waste disposed	kg	1.78e-3	0.00E+00	0.00E+00	0.00E+00	1.78e-3	0.00E+00	0.00E+00	0.00E+00
Non hazardous waste disposed	kg	1.24e-6	0.00E+00	0.00E+00	0.00E+00	1.24e-6	0.00E+00	0.00E+00	0.00E+00
Components for reuse	kg	0.00e+0	0.00E+00	0.00E+00	0.00E+00	0.00e+0	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00e+0	0.00E+00	0.00E+00	0.00E+00	0.00e+0	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00e+0	0.00E+00	0.00E+00	0.00E+00	0.00e+0	0.00E+00	0.00E+00	0.00E+00
Exported Energy	MJ	0.00e+0	0.00E+00	0.00E+00	0.00E+00	0.00e+0	0.00E+00	0.00E+00	0.00E+00

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> Those impacts are applicable to all references on page 1.

#### > Extrapolation rule

None

Registration number : <b>SOMF-00005-V02.01-EN</b>	Drafting Rules: PCR-ed3-EN-2015 04 02 Complemented by : PSR-0005-ed2-FR-2016 03 29
Accreditation number: VH18	Programme information: <a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Date of issue: 07-2022	Validity period: 5 years
Independent verification of the declaration and data. in compliance with ISO 14025 : 2006 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: 2006 "Environmental labels and declarations. Type III environmental declarations"	
Somfy contact: Pierre HOGUET, Ecodesign Engineer. <a href="mailto:pierre.hoguet@somfy.com">pierre.hoguet@somfy.com</a>	

