

# Product Environmental Profile

## Wind sensor Eolis 3D Wirefree RTS



### Reference product



#### > Reference product

Eolis 3D WireFree RTS blanc

Ref 9014400

#### > Functional unit

To control blinds equipped with a RTS radio motor during a lifetime of 10 years.

#### > References covered

Eolis 3D WireFree RTS Noir, ref 9013847

Eolis 3D WireFree RTS Bronzal, ref 9013809

Eolis 3D WireFree RTS White FCC, ref 1816081

Eolis 3D WireFree RTS Black FCC, ref 1816082

Eolis 3D WireFree RTS BR-UL FCC, ref 1816083



### 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    | %     |
| <b>ABS</b>                              | 37.5  | 24.4  | <b>Zinc</b>               | 4.1   | 2.7   | <b>Manganese dioxide</b>     | 9.6  | 6.3   |
| <b>Polypropylene</b>                    | 17.3  | 11.3  | <b>Steel</b>              | 3.4   | 2.2   | <b>Water</b>                 | 2.3  | 1.5   |
| <b>Polyethhylene low linear density</b> | 3.4   | 2.2   | <b>Neodymium</b>          | 1.5   | 1.0   | <b>Glass fiber</b>           | 2.2  | 1.4   |
| <b>Epoxy resin</b>                      | 1.4   | 0.9   | <b>Copper</b>             | 0.7   | 0.4   | <b>Potassium hydroxide</b>   | 1.6  | 1.0   |
| <b>Polyethylene</b>                     | 1.2   | 0.8   | <b>Tin</b>                | 0.5   | 0.3   | <b>Carbon</b>                | 1.1  | 0.7   |
| <b>polyester resin reinforced</b>       | 0.5   | 0.3   | <b>Stainless steel</b>    | 0.5   | 0.3   | <b>tetrabromobisphenol A</b> | 0.2  | 0.1   |
| <b>PA 6.6</b>                           | 0.4   | 0.2   | <b>Brass</b>              | 0.4   | 0.3   | <b>Zinc oxide</b>            | 0.1  | 0.1   |
| <b>polybutylene terephthalate</b>       | 0.4   | 0.2   | <b>steel electrolytic</b> | 0.4   | 0.2   | <b>Other</b>                 | 0.1  | < 0.1 |
| <b>Polyvinyl chloride</b>               | 1.2   | 0.1   | <b>Nickel</b>             | 0.2   | 0.1   | <b>Total</b>                 | 17.1 | 11.1  |
| <b>Other</b>                            | < 0.1 | < 0.1 | <b>Other</b>              | < 0.1 | < 0.1 | <b>Packaging</b>             |      |       |
| <b>Total</b>                            | 62.4  | 40.5  | <b>Total</b>              | 11.7  | 7.6   | <b>Paper</b>                 | 42.1 | 27.5  |
|   |       |       |                           |       |       | <b>Carboard</b>              | 20.4 | 13.3  |

Total mass of reference product: 153.382g

Estimated recyclable content: 38.4%

#### > ENERGY MODE

European mix.

#### > 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 have adopted environmental management approach.

#### > Energy model

Electricity grid mix; AC; consumption mix, at consumer; 230V; PL



### 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

The adhesive strip required for installation is included with the product, so it is modeled in the Manufacturing section.

#### > Installation processes

There is no installation process due to the adhesive strip provided.

#### > Energy model

Not applicable



### Use

> This active product of Catégorie 2 is autonome.

> Energy model of the usage phase: None

> Consumables and maintenance: 4 Alkaline AAA-LR03 batteries



### End of life

#### > Typical transport conditions

Considering the complexity and the lack of knowledge of the electric and electronic recycling channel and processes all around the world, we considered:

- 1000 km of transport
- Landfilling treatment of the product
- Waste treatment by pyrometallurgy for batteries.

#### > Energy model

European mix

#### > Batteries can be recycled

Please place them into the correct collection channel.

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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

|  | Unit                         | Sum     | Manufacturing | Distribution | Installation | Use     | End of life |
|--|------------------------------|---------|---------------|--------------|--------------|---------|-------------|
| <b>A for PEP</b>   | (kg SO <sub>2</sub> eq.)     | 1.36e-2 | 1.15e-2       | 1.31e-3      | 3.07e-5      | 6.25e-4 | 5.54e-5     |
| <b>ADPe for EN15804</b>  | (kg antimony eq.)            | 6.22e-5 | 3.88e-5       | 1.35e-9      | 3.70e-10     | 2.35e-5 | 4.06e-10    |
| <b>ADPf for EN15804</b>  | (MJ)                         | 2.71e+1 | 2.37e+1       | 6.97e-1      | 6.38e-2      | 2.48e+0 | 1.74e-1     |
| <b>AP for DHUP</b>   | (m <sup>3</sup> )            | 2.70e+2 | 1.97e+2       | 6.58e+0      | 1.21e+0      | 6.32e+1 | 1.66e+0     |
| <b>EP for EN15804</b>  | (kg PO <sub>4</sub> --- eq.) | 1.25e-3 | 8.47e-4       | 1.32e-4      | 8.66e-5      | 1.31e-4 | 5.73e-5     |
| <b>GWP for EN15804</b>   | (kg CO <sub>2</sub> eq.)     | 2.93e+0 | 2.36e+0       | 5.62e-2      | 6.79e-2      | 3.47e-1 | 1.06e-1     |
| <b>ODP for EN15804</b>   | (kg CFC-11 eq.)              | 1.42e-7 | 8.30e-8       | 1.29e-8      | 2.01e-10     | 3.82e-8 | 7.99e-9     |
| <b>POCP for EN15804</b>  | (kg ethylene eq.)            | 7.91e-4 | 6.69e-4       | 6.29e-5      | 1.58e-5      | 4.05e-5 | 2.49e-6     |
| <b>WP for DHUP</b>   | (m <sup>3</sup> )            | 2.06e+2 | 1.77e+2       | 8.22e+0      | 2.20e+0      | 1.38e+1 | 4.30e+0     |
| <b>Total Primary Energy</b>  | MJ                           | 3.50e+1 | 3.03e+1       | 7.00e-1      | 7.13e-2      | 3.80e+0 | 1.94e-1     |
| <b>Total use of renewable primary energy resources</b>   | MJ                           | 2.18e+0 | 2.17e+0       | 6.04e-4      | 1.41e-3      | 5.49e-3 | 1.90e-3     |
| <b>Total use of non-renewable primary energy resources</b>   | MJ                           | 3.28e+1 | 2.81e+1       | 7.00e-1      | 6.99e-2      | 3.79e+0 | 1.92e-1     |
| <b>Use of renewable primary energy excluding renewable primary energy used as raw material</b>         | MJ                           | 2.10e+0 | 2.10e+0       | 6.04e-4      | 1.41e-3      | 5.49e-3 | 1.90e-3     |
| <b>Use of renewable primary energy resources used as raw material</b>                                  | MJ                           | 7.34e-2 | 7.34e-2       | 0.00e+0      | 0.00e+0      | 0.00e+0 | 0.00e+0     |
| <b>Use of non renewable primary energy excluding non renewable primary energy used as raw material</b> | MJ                           | 3.02e+1 | 2.56e+1       | 7.00e-1      | 6.99e-2      | 3.71e+0 | 1.92e-1     |
| <b>Use of non renewable primary energy resources used as raw material</b>                              | MJ                           | 2.60e+0 | 2.52e+0       | 0.00e+0      | 0.00e+0      | 8.16e-2 | 0.00e+0     |
| <b>Use of non 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 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                           | 5.90e-2 | 5.90e-2       | 0.00e+0      | 0.00e+0      | 0.00e+0 | 0.00e+0     |
| <b>Net use of freshwater</b>   | m <sup>3</sup>               | 2.63e-1 | 2.59e-1       | 2.46e-5      | 1.33e-5      | 3.82e-3 | 5.28e-5     |
| <b>Hazardous waste disposed</b>  | kg                           | 3.50e-1 | 1.89e-1       | 1.53e-5      | 4.38e-5      | 1.01e-1 | 5.98e-2     |
| <b>Non hazardous waste disposed</b>  | kg                           | 6.89e+0 | 6.74e+0       | 1.16e-3      | 6.75e-2      | 6.89e-3 | 6.79e-2     |
| <b>Radioactive waste disposed</b>  | kg                           | 2.23e-4 | 2.08e-4       | 4.45e-6      | 1.67e-6      | 4.89e-6 | 4.52e-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                           | 0.00e+0 | 0.00e+0       | 0.00e+0      | 0.00e+0      | 0.00e+0 | 0.00e+0     |
| <b>Exported Energy</b>   | MJ                           | 2.99e-2 | 5.73e-3       | 0.00e+0      | 2.41e-2      | 0.00e+0 | 0.00e+0     |

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### > Extrapolation rule

No extrapolation rule is needed for this case.

> These environmental impacts are applicable to all covered references mentioned on page 1.

|  |   |
|--|---|
| Registration number : SOMF-00073-V01.01-EN   | Applicable PCR: PCR-ed3-FR-2015 04 02<br>Supplemented by PSR: PSR-0005-ed2-FR-2016 03 29    |
| Accreditation number: VH18   | Programme information: <a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a> |
| Edition date: 12-2021  | Period of validity: 5 years   |
| Independent verification of the declaration and data, according to ISO 14025:2010<br>Internal <input type="checkbox"/> External <input type="checkbox"/> Bureau Veritas LCIE <input checked="" type="checkbox"/> |        |
| Document in compliance with ISO 14025: 2010 "Environmental labels and declarations. Type III environmental declarations"   |   |
| PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)  |   |
| PEP are compliant with XP C08-100-1: 2016<br>The elements of the present PEP cannot be compared with elements from another programme.  |   |
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