Product Environmental Profile

WISER WIRELESS SWITCH WITH ROCKER
**General information**

Representative product: WISER WIRELESS SWITCH WITH ROCKER - WDE002906

Description of the product: The main purpose of the Wiser wireless switch product is to give a solution for the control of Electricity.

Functional unit: Establish, support and interrupt for 10 years rated currents in normal conditions of circuit characterized by the current 2.42μA, including any conditions specified for overload in operation characterized by the current 2.42μA, for the operating voltage 3.3V for a specified time with IP20 protection in accordance with the standard IEC 60529 and IK01 protection in accordance with the standard IEC 62262.

**Constituent materials**

Reference product mass: 97.5 g including the product, its packaging.

Reference product mass diagram:

- PC Polycarbonate - 25.6%
- PE Polyethylene - 1.5%
- PA Polyamide - 3.6%
- PET Polyethylene Terephthalate - 0.8%
- PP Polypropylene - <0.1%
- Steel - 1%
- Bronze - 0.4%
- Paper - 14.7%
- Cardboard - 39.9%
- Electronic components - 12.5%
- Others - 67.1%

- Plastics: 31.5%
- Metals: 1.4%
- Others: 67.1%

**Substance assessment**

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers – PBDE), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page
### Additional environmental information

The WISER WIRELESS SWITCH WITH ROCKER presents the following relevant environmental aspects:

**Manufacturing**
- Manufactured at a Schneider Electric production site ISO14001 certified
- Weight and volume of the packaging optimized, based on the European Union's packaging directive
- Packaging weight is 56.7 g, consisting of cardboard (70.03%), paper (25.89%) PE film (2.64%), PET film (1.41%), PP film (0.03%)
- Product distribution optimized by setting up local distribution centres

**Installation**
- The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted during the installation phase (including transport to disposal).

**Use**
- The product does not require special maintenance operations.

**End of Life**
- End of life optimized to decrease the amount of waste and allow recovery of the product components and materials
- No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process.


### Environmental impacts

**Reference life time**
- 10 years

**Product category**
- Switches

**Installation elements**
- No special components needed

**Use scenario**
- The product is in active mode 30% of the time with a power use of 0.00548W and in OFF mode 70% of the time with a power use of 0.0W, for 10 years

**Geographical representativeness**
- Europe and Nordic countries

**Technological representativeness**
- The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are similar and representative of the actual type of technologies used to make the product in production.

**Energy model used**
- Manufacturing: Riga, Latvia
- Installation: Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27
- Use: Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27
- End of life: Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

<table>
<thead>
<tr>
<th>Compulsory indicators</th>
<th>WISER WIRELESS SWITCH WITH ROCKER - WDE002906</th>
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<tbody>
<tr>
<td>Impact indicators</td>
<td>Unit</td>
</tr>
<tr>
<td>Contribution to mineral resources depletion</td>
<td>kg Sb eq</td>
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<tr>
<td>Contribution to soil and water acidification</td>
<td>kg SO₂ eq</td>
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<tr>
<td>Contribution to water eutrophication</td>
<td>kg PO₄³⁻ eq</td>
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<tr>
<td>Contribution to global warming</td>
<td>kg CO₂ eq</td>
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<td>Contribution to ozone layer depletion</td>
<td>kg CFC11 eq</td>
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<td>Contribution to photochemical oxidation</td>
<td>kg C₃H₆ eq</td>
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<td>Resources use</td>
<td>Unit</td>
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<tr>
<td>Net use of freshwater</td>
<td>m3</td>
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<tr>
<td>Total Primary Energy</td>
<td>MJ</td>
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</table>
Life cycle assessment performed with EIME version EIME v5.8.1, database version 2016-11 in compliance with ISO14044.

The manufacturing phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).
Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

<table>
<thead>
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<th>Registration number:</th>
<th>SCHN-00617-V01.01-EN</th>
<th>Drafting rules:</th>
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Independent verification of the declaration and data, in compliance with ISO 14025 : 2010

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 »

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