Product Environmental Profile

WISER MICRO MODULE LIGHT SWITCH
General information

Representative product
WISER MICRO MODULE LIGHT SWITCH - CCT5011-0001

Description of the product
The main function of the Relay Switch Module is the control light fittings that are specified in the user manual with regards to switching.
It can be installed behind a push button insert in a flush–mounted box and the push button will be the UI to switch on or off the load.
It has RF on board and can be remotely controlled by a smart phone or other transmitters such as the Free Locatable Switch of the Wiser Home System.

Functional unit
Establish, support and interrupt for 10 years rated currents in normal conditions of circuit characterized by the current Ith=10A, including any conditions specified for overload in operation characterized by the current Ie=23.2A, for the operating voltage Ue=220V-240V and a current for short-circuit Icw=1500A for a specified time.

Constituent materials

Reference product mass
97,19 g including the product, its packaging and additional elements and accessories

[Diagram showing constituent materials]

Plastics 17,7%
Metals 0,4%
Others 81,8%

Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) 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) as mentioned in the Directive.
As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this 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
The WISER MICRO MODULE LIGHT SWITCH presents the following relevant environmental aspects:

**Manufacturing**
Manufactured at a production site complying with the regulations.

**Distribution**
Weight and volume of the packaging optimized, based on the European Union's packaging directive. Packaging weight is 44.5 g, consisting of cardboard (48%), paper (52%).

**Installation**
Ref CCT5011-0001 does not require any installation operations.

**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.

This product contains electronic card (43.7 g) that should be separated from the stream of waste so as to optimize end-of-life treatment.

The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website.


Recyclability potential: **42%**

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**Environmental impacts**

**Reference life time**
20 years

**Product category**
Switches

**Installation elements**
No special components needed

**Use scenario**
Load rate: 50% of In
Use time rate: 30% of RLT

**Geographical representativeness**
Europe

**Technological representativeness**
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**Energy model used**

<table>
<thead>
<tr>
<th>Energy model used</th>
<th>Total Manufacturing</th>
<th>Distribution</th>
<th>Installation</th>
<th>Use</th>
<th>End of life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy model used: Leedaron, China</td>
<td>Manufacturing</td>
<td>Electricity grid mix; AC; consumption mix, at consumer; &lt; 1kV; EU-27</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Installation</td>
<td>Electricity grid mix; AC; consumption mix, at consumer; &lt; 1kV; EU-27</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Use</td>
<td>Electricity grid mix; AC; consumption mix, at consumer; &lt; 1kV; EU-27</td>
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<td></td>
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<tr>
<td></td>
<td>End of life</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Impact indicators**

<table>
<thead>
<tr>
<th>Impact indicators</th>
<th>Unit</th>
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<th>End of Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contribution to mineral resources depletion</td>
<td>kg Sb eq</td>
<td>1.82E-03</td>
<td>1.82E-03</td>
<td>0*</td>
<td>0*</td>
<td>8.14E-07</td>
</tr>
<tr>
<td>Contribution to the soil and water acidification</td>
<td>kg SO₂ eq</td>
<td>4.19E-02</td>
<td>3.31E-03</td>
<td>5.73E-05</td>
<td>1.06E-05</td>
<td>3.85E-02</td>
</tr>
<tr>
<td>Contribution to water eutrophication</td>
<td>kg PO₄³⁻ eq</td>
<td>3.64E-03</td>
<td>1.18E-03</td>
<td>1.32E-05</td>
<td>7.35E-05</td>
<td>2.36E-03</td>
</tr>
<tr>
<td>Contribution to global warming</td>
<td>kg CO₂ eq</td>
<td>1.11E+01</td>
<td>1.54E+00</td>
<td>1.25E-02</td>
<td>4.99E-02</td>
<td>9.39E+00</td>
</tr>
<tr>
<td>Contribution to ozone layer depletion</td>
<td>kg CFC11 eq</td>
<td>7.58E-07</td>
<td>1.56E-07</td>
<td>0*</td>
<td>1.42E-10</td>
<td>6.00E-07</td>
</tr>
<tr>
<td>Contribution to photochemical oxidation</td>
<td>kg C₆H₆ eq</td>
<td>2.41E-03</td>
<td>2.70E-04</td>
<td>4.09E-06</td>
<td>1.16E-05</td>
<td>2.12E-03</td>
</tr>
</tbody>
</table>

**Resources use**

<table>
<thead>
<tr>
<th>Resources use</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Net use of freshwater</td>
<td>m3</td>
<td>3.40E+01</td>
<td>1.70E-02</td>
<td>0*</td>
<td>0*</td>
<td>3.40E+01</td>
</tr>
<tr>
<td>Total Primary Energy</td>
<td>MJ</td>
<td>2.07E+02</td>
<td>1.96E+01</td>
<td>1.77E-01</td>
<td>2.13E-02</td>
<td>1.87E+02</td>
</tr>
</tbody>
</table>

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**Contribution to ozone layer depletion**

Ref CCT5011-0001 does not require any installation operations.

**Contribution to water eutrophication**

The WISER MICRO MODULE LIGHT SWITCH is optimized to decrease the amount of waste and allow recovery of the product components and materials.

**Contribution to global warming**

The main function of the Relay Switch Module is the control light fittings that are specified in the user manual with regards to switching.

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**Installation elements**
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<th>End of Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contribution to fossil resources depletion</td>
<td>MJ</td>
<td>1.25E+02</td>
<td>1.84E+01</td>
<td>1.76E-01</td>
<td>3.00E-02</td>
<td>1.07E+02</td>
<td>1.22E-01</td>
</tr>
<tr>
<td>Contribution to air pollution</td>
<td>m³</td>
<td>5.78E+02</td>
<td>1.74E+02</td>
<td>5.33E-01</td>
<td>6.49E-01</td>
<td>4.02E+02</td>
<td>9.31E-01</td>
</tr>
<tr>
<td>Contribution to water pollution</td>
<td>m³</td>
<td>5.36E+02</td>
<td>1.41E+02</td>
<td>2.06E+00</td>
<td>1.72E+00</td>
<td>3.88E+02</td>
<td>2.25E+00</td>
</tr>
</tbody>
</table>

### Resources use

| Use of secondary material | kg | 2.10E-02 | 2.10E-02 | 0* | 0* | 0* | 0* |
| Total use of renewable primary energy resources | MJ | 2.44E+01 | 5.35E-01 | 0* | 0* | 2.39E+01 | 0* |
| Total use of non-renewable primary energy resources | MJ | 1.83E+02 | 1.91E+01 | 1.77E-01 | 2.06E-02 | 1.63E+02 | 1.29E-01 |

Use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 2.39E+01 | 4.68E-02 | 0* | 0* | 2.39E+01 | 0* |
Use of renewable primary energy resources used as raw material | MJ | 4.88E-01 | 4.88E-01 | 0* | 0* | 0* | 0* |
Use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 1.82E+02 | 1.85E+01 | 1.77E-01 | 2.06E-02 | 1.63E+02 | 1.29E-01 |
Use of non renewable primary energy resources used as raw material | MJ | 5.81E-01 | 5.81E-01 | 0* | 0* | 0* | 0* |
Use of non renewable secondary fuels | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* |
Use of renewable secondary fuels | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* |

### Waste categories

| Hazardous waste disposed | kg | 3.19E+00 | 3.07E+00 | 0* | 0* | 4.92E-03 | 1.19E-01 |
| Non hazardous waste disposed | kg | 3.57E+00 | 6.07E-01 | 0* | 4.72E-02 | 3.50E+01 | 0* |
| Radioactive waste disposed | kg | 2.38E-02 | 6.09E-04 | 0* | 0* | 2.32E-02 | 0* |

### Other environmental information

| Materials for recycling | kg | 3.14E-02 | 9.00E-03 | 0* | 0* | 0* | 2.24E-02 |
| Components for reuse | kg | 0.00E+00 | 0* | 0* | 0* | 0* | 0* |
| Materials for energy recovery | kg | 1.59E-02 | 4.21E-04 | 0* | 0* | 0* | 1.55E-02 |

* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version EIME v5.6.0.1, database version 2016-11.

The use 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>
<tr>
<th>Registration number</th>
<th>SCHN-00223-V01.01-EN</th>
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<tr>
<td>Verifier accreditation N°</td>
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<tr>
<td>Date of issue</td>
<td>05/2018</td>
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<table>
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<th>Drafting rules</th>
<th>PCR-ed3-EN-2015 04 02</th>
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<tr>
<td>Supplemented by</td>
<td>PSR-0005-ed2-EN-2016 03 29</td>
</tr>
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<td>Information and reference documents</td>
<td><a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a></td>
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<tr>
<td>Validity period</td>
<td>5 years</td>
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</tbody>
</table>

Independent verification of the declaration and data, in compliance with ISO 14025 : 2010

Internal | External  | X |

The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)

PEP are compliant with XP C08-100-1 :2014

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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