

Product Environmental Profile

EXXACT DIMMERS





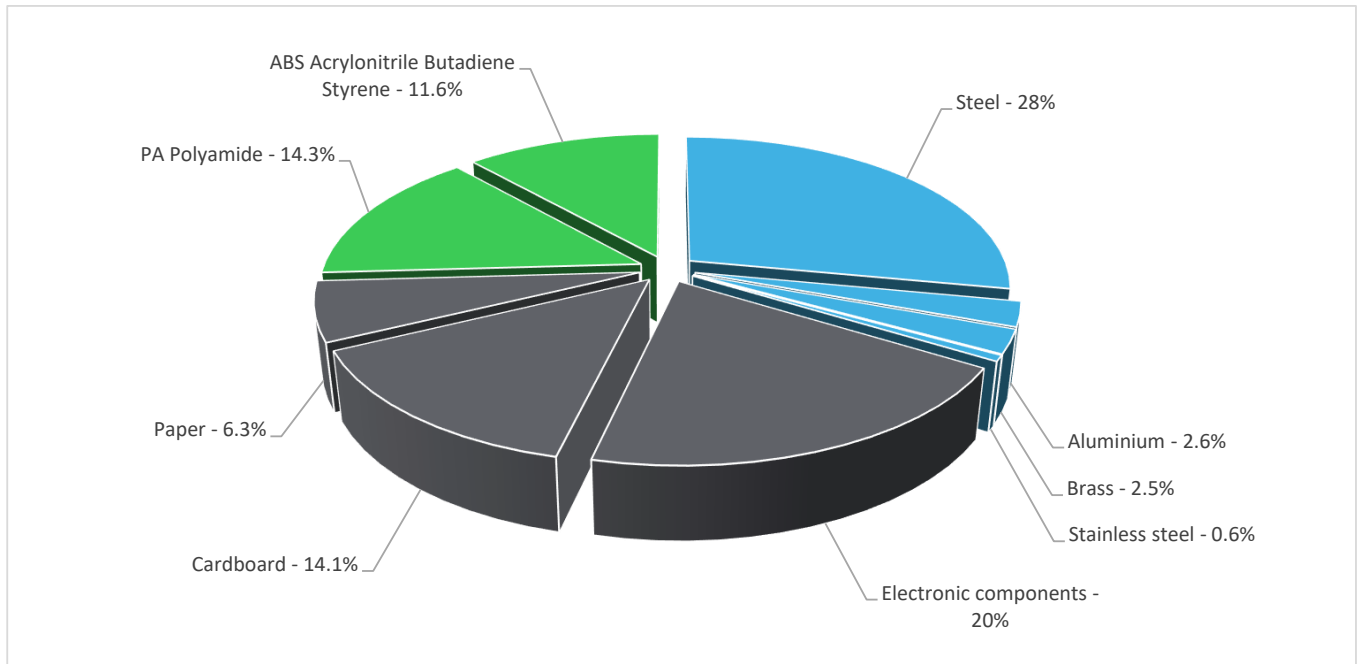
General information

| | |
|-----------------------------------|--|
| Representative product | EXXACT DIMMERS - WDE002311 |
| Description of the product | The main function of Exxact dimmer rated at 10A, 230V product range is to switch on and off via push on knob and control lighting loads from 40W to 315W for 20 years. |
| Functional unit | Establish, support and interrupt for 20 years rated currents in normal conditions of circuit characterized by the current 10A, including any conditions specified for overload in operation characterized by the current 10A, for the operating voltage 230V for a specified time with IP20 & IP44 (with additional sealing kit) protection in accordance with the standard IEC 60529. |



Constituent materials

| | | |
|-------------------------------|-------|---------------------------------------|
| Reference product mass | 125 g | including the product, its packaging. |
|-------------------------------|-------|---------------------------------------|



| | |
|----------|-------|
| Plastics | 25.9% |
| Metals | 33.7% |
| Others | 40.4% |



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

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 EXXACT DIMMERS presents the following relevant environmental aspects

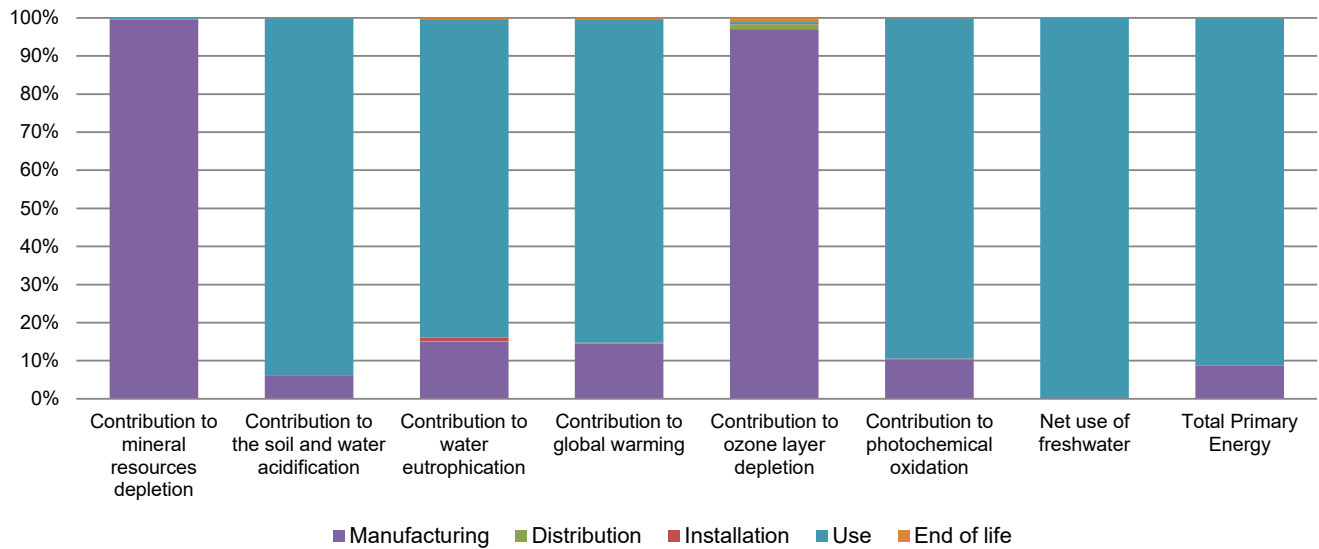
| | |
|----------------------|---|
| Manufacturing | Manufactured at a Schneider Electric production site ISO14001 certified |
| Distribution | Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 24.5 g, consisting of cardboard (69.25%), paper (30.75%) Product distribution optimised 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 This product contains electronic card (39.367g) that should be separated from the stream of waste so as to optimize end-of-life treatment. Recyclability potential: 54% Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME). |

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 | Sweden, Norway, Finland | | | |
| Technological representativeness | The main function of Exxact dimmer rated at 10A, 230V product range is to switch on and off via push on knob and control lighting loads from 40W to 315W for 20 years. | | | |
| Energy model used | Manufacturing | Installation | Use | End of life |
| | Manufacturing plant: LEXEL FABRIKA, SIA Latvia | Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV; FI | Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV; FI | Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV; |

| Compulsory indicators | | EXXACT DIMMERS - WDE002311 | | | | | |
|--|-------------------------------------|----------------------------|---------------|--------------|--------------|----------|-------------|
| Impact indicators | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Contribution to mineral resources depletion | kg Sb eq | 5.62E-04 | 5.59E-04 | 0* | 0* | 2.45E-06 | 0* |
| Contribution to the soil and water acidification | kg SO ₂ eq | 5.16E-02 | 3.13E-03 | 1.85E-05 | 0* | 4.84E-02 | 3.90E-05 |
| Contribution to water eutrophication | kg PO ₄ ³⁻ eq | 4.88E-03 | 7.32E-04 | 4.57E-06 | 5.07E-05 | 4.08E-03 | 1.62E-05 |
| Contribution to global warming | kg CO ₂ eq | 1.38E+01 | 2.00E+00 | 5.31E-03 | 3.01E-02 | 1.18E+01 | 4.58E-02 |
| Contribution to ozone layer depletion | kg CFC11 eq | 1.61E-07 | 1.56E-07 | 2.01E-09 | 8.09E-11 | 9.57E-10 | 1.70E-09 |
| Contribution to photochemical oxidation | kg C ₂ H ₄ eq | 3.24E-03 | 3.35E-04 | 1.01E-06 | 7.09E-06 | 2.90E-03 | 3.54E-06 |
| Resources use | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Net use of freshwater | m ³ | 8.37E+01 | 2.27E-02 | 0* | 0* | 8.37E+01 | 0* |
| Total Primary Energy | MJ | 3.65E+02 | 3.18E+01 | 6.98E-02 | 0* | 3.33E+02 | 1.76E-01 |

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| Optional indicators | | EXXACT DIMMERS - WDE002311 | | | | | | |
|---|------|----------------------------|---------------|--------------|--------------|----------|-------------|--|
| Impact indicators | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life | |
| Contribution to fossil resources depletion | MJ | 1.48E+02 | 2.11E+01 | 6.94E-02 | 0* | 1.27E+02 | 1.43E-01 | |
| Contribution to air pollution | m³ | 7.24E+02 | 2.25E+02 | 2.12E-01 | 2.59E-01 | 4.98E+02 | 1.26E+00 | |
| Contribution to water pollution | m³ | 5.37E+02 | 2.40E+02 | 8.23E-01 | 1.30E+00 | 2.93E+02 | 2.26E+00 | |
| Resources use | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life | |
| Use of secondary material | kg | 1.47E-02 | 1.47E-02 | 0* | 0* | 0* | 0* | |
| Total use of renewable primary energy resources | MJ | 8.14E+01 | 1.36E+00 | 0* | 0* | 8.01E+01 | 0* | |
| Total use of non-renewable primary energy resources | MJ | 2.83E+02 | 3.05E+01 | 6.97E-02 | 0* | 2.52E+02 | 1.76E-01 | |
| Use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 8.10E+01 | 8.91E-01 | 0* | 0* | 8.01E+01 | 0* | |
| Use of renewable primary energy resources used as raw material | MJ | 4.66E-01 | 4.66E-01 | 0* | 0* | 0* | 0* | |
| Use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 2.82E+02 | 2.92E+01 | 6.97E-02 | 0* | 2.52E+02 | 1.76E-01 | |
| Use of non renewable primary energy resources used as raw material | MJ | 1.31E+00 | 1.31E+00 | 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 | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life | |
| Hazardous waste disposed | kg | 1.68E+00 | 1.51E+00 | 0* | 0* | 9.95E-03 | 1.64E-01 | |
| Non hazardous waste disposed | kg | 3.26E+01 | 4.77E-01 | 0* | 2.54E-02 | 3.21E+01 | 0* | |
| Radioactive waste disposed | kg | 4.72E-02 | 2.42E-04 | 0* | 0* | 4.69E-02 | 0* | |
| Other environmental information | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life | |
| Materials for recycling | kg | 6.17E-02 | 9.62E-03 | 0* | 0* | 0* | 5.21E-02 | |
| Components for reuse | kg | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | |
| Materials for energy recovery | kg | 1.14E-02 | 0* | 0* | 0* | 0* | 1.14E-02 | |
| Exported Energy | MJ | 4.33E-03 | 7.29E-06 | 0* | 4.32E-03 | 0* | 0* | |

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

Life cycle assessment performed with EIME version EIME v5.8.1, database version 2016-11 in compliance with ISO14044.

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.

| | | | |
|--|-------------------|-------------------------------------|--|
| Registration number | ENVPEP101006EN_V1 | Drafting rules | PCR-ed3-EN-2015 04 02 |
| Date of issue | 09/2019 | Supplemented by | PSR-0005-ed2-EN-2016 03 29 |
| Validity period | 5 years | Information and reference documents | www.pep-ecopassport.org |
| <i>Independent verification of the declaration and data</i> | | | |
| Internal | X | External | |
| <i>The elements of the present PEP cannot be compared with elements from another program.</i> | | | |
| <i>Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »</i> | | | |

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