

Product Environmental Profile

Harmony Signaling Devices

XVC Monolithic Tower Light





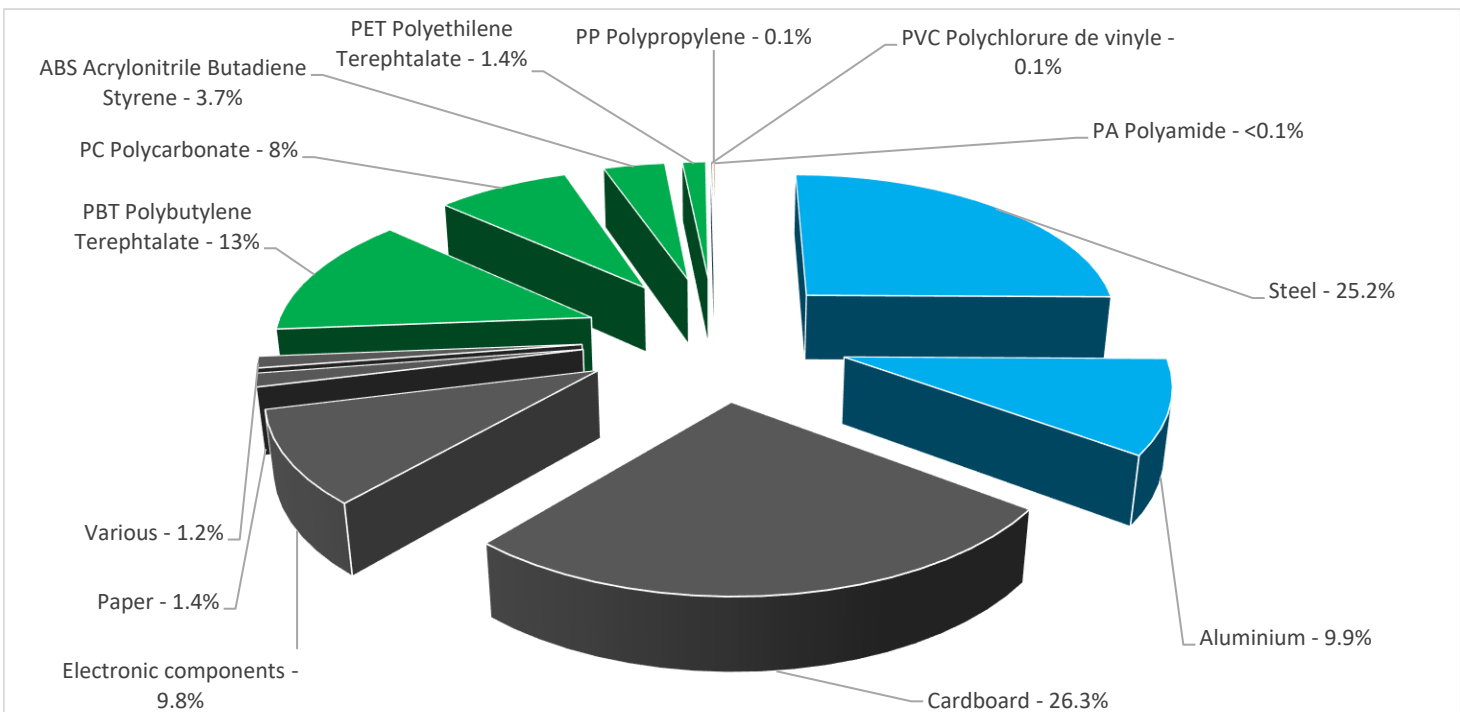
General information

| | |
|-----------------------------------|--|
| Representative product | XVC Monolithic Tower Light - XVC6M35S |
| Description of the product | Harmony XVC modular range of tower lights are visual and audible signaling units indicating various states, operation sequence or installation of a machine. |
| Description of the range | <p>Harmony XVC range of pre-assembled/pre-cabled tower lights with Ø40, Ø60 and Ø100mm diameter makes them suitable for use in all activity sectors.</p> <p>1, XVC4 (40 mm) tower lights are used mainly in the food-processing and medical sectors, 2, XVC6 (60 mm) tower lights are used in semi-conductor factories, on conveyor belts and on small food or drink dispensing machines in the commercial sector, 3, XVC1 (100 mm) tower lights are more particularly designed for industrial applications and machine-tools.</p> <p>The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.</p> |
| Functional unit | Provide long-distance indication of the operation status or sequences of machines by using lights and/or buzzers during 10 years and at a 50% use rate. |



Constituent materials

Reference product mass 1120 g including the product, its packaging and additional elements and accessories



| | |
|----------|-------|
| Plastics | 26.3% |
| Metals | 35.1% |
| Others | 38.7% |

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>

Additional environmental information

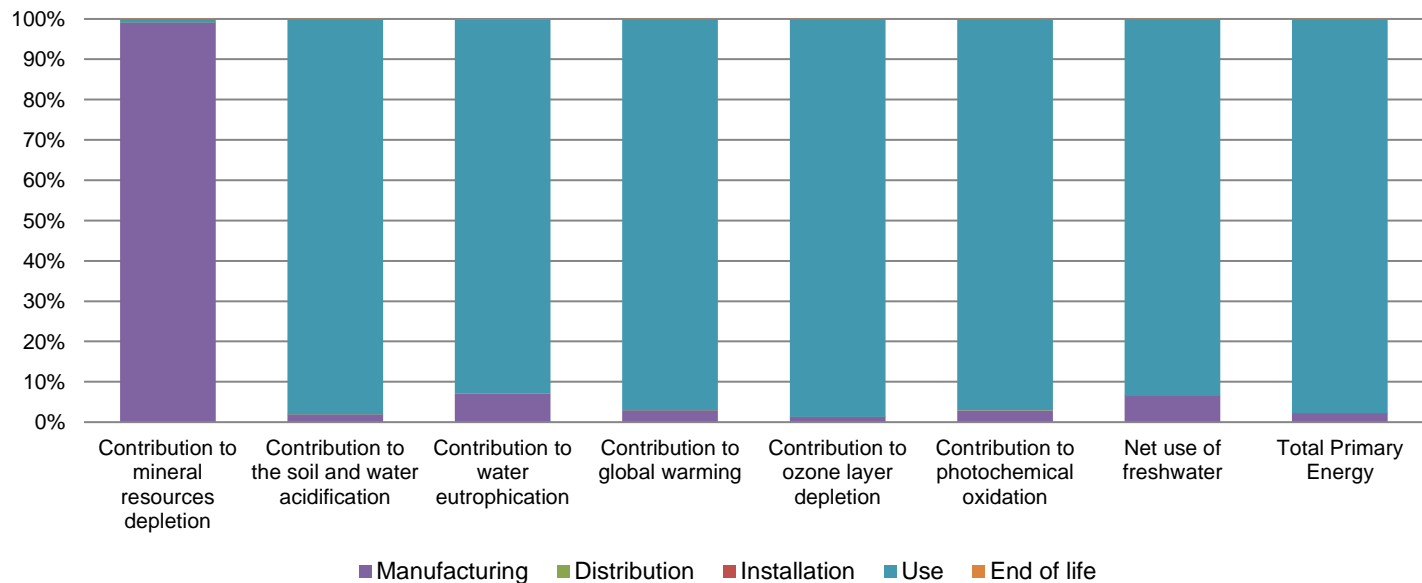
The XVC Monolithic Tower Light presents the following relevant environmental aspects

| | |
|----------------------|---|
| 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 319.3 g, consisting of Cardboard (92.7%), Paper(5.0%), PET film(2.3%) Packaging recycled materials is 97.7% of total packaging mass. |
| Installation | XVC6M35S 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 PCBA assembly(108g) 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 http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page Recyclability potential: 49% 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 | 10 years | | | |
| Product category | Other equipments - Active product | | | |
| Installation elements | No special components needed | | | |
| Use scenario | The product is in active mode with a power use of 14.5 W for 10 years at a 50% use rate. | | | |
| Geographical representativeness | Europe | | | |
| Technological representativeness | Harmony XVC modular range of tower lights are visual and audible signaling units indicating various states, operation sequence or installation of a machine. | | | |
| Energy model used | Manufacturing | Installation | Use | End of life |
| | Energy model used: Japan | Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27 | Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27 | Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27 |

| Compulsory indicators | | XVC Monolithic Tower Light - XVC6M35S | | | | | |
|--|-------------------------------------|---------------------------------------|---------------|--------------|--------------|----------|-------------|
| Impact indicators | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Contribution to mineral resources depletion | kg Sb eq | 1.97E-03 | 1.95E-03 | 0* | 0* | 1.71E-05 | 0* |
| Contribution to the soil and water acidification | kg SO ₂ eq | 2.89E+00 | 5.47E-02 | 6.60E-04 | 0* | 2.84E+00 | 2.92E-04 |
| Contribution to water eutrophication | kg PO ₄ ³⁻ eq | 1.15E-01 | 7.98E-03 | 1.52E-04 | 2.00E-05 | 1.06E-01 | 9.91E-05 |
| Contribution to global warming | kg CO ₂ eq | 3.87E+02 | 1.14E+01 | 1.45E-01 | 0* | 3.75E+02 | 2.50E-01 |
| Contribution to ozone layer depletion | kg CFC11 eq | 9.23E-05 | 1.20E-06 | 0* | 0* | 9.11E-05 | 9.97E-09 |
| Contribution to photochemical oxidation | kg C ₂ H ₄ eq | 1.38E-01 | 3.97E-03 | 4.71E-05 | 0* | 1.34E-01 | 2.94E-05 |
| Resources use | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Net use of freshwater | m ³ | 1.05E+00 | 6.76E-02 | 0* | 0* | 9.78E-01 | 1.86E-04 |
| Total Primary Energy | MJ | 7.78E+03 | 1.75E+02 | 2.04E+00 | 0* | 7.60E+03 | 1.47E+00 |



| Optional indicators | | XVC Monolithic Tower Light - XVC6M35S | | | | | |
|---|----------------|---------------------------------------|---------------|--------------|--------------|----------|-------------|
| Impact indicators | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Contribution to fossil resources depletion | MJ | 3.98E+03 | 1.16E+02 | 2.03E+00 | 0* | 3.86E+03 | 1.13E+00 |
| Contribution to air pollution | m ³ | 1.78E+04 | 1.67E+03 | 6.15E+00 | 0* | 1.61E+04 | 1.02E+01 |
| Contribution to water pollution | m ³ | 1.73E+04 | 1.44E+03 | 2.38E+01 | 2.65E+00 | 1.57E+04 | 6.84E+01 |
| Resources use | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Use of secondary material | kg | 2.18E-03 | 2.18E-03 | 0* | 0* | 0* | 0* |
| Total use of renewable primary energy resources | MJ | 5.54E+02 | 1.03E+01 | 0* | 0* | 5.44E+02 | 0* |
| Total use of non-renewable primary energy resources | MJ | 7.22E+03 | 1.64E+02 | 2.04E+00 | 0* | 7.05E+03 | 1.47E+00 |
| Use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 5.48E+02 | 4.14E+00 | 0* | 0* | 5.44E+02 | 0* |
| Use of renewable primary energy resources used as raw material | MJ | 6.15E+00 | 6.15E+00 | 0* | 0* | 0* | 0* |
| Use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 7.21E+03 | 1.53E+02 | 2.04E+00 | 0* | 7.05E+03 | 1.47E+00 |
| Use of non renewable primary energy resources used as raw material | MJ | 1.16E+01 | 1.16E+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 | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
|---------------------------------|------|----------|---------------|--------------|--------------|----------|-------------|
| Hazardous waste disposed | kg | 3.75E+01 | 3.62E+01 | 0* | 0* | 0* | 1.33E+00 |
| Non hazardous waste disposed | kg | 1.41E+03 | 6.97E+00 | 0* | 0* | 1.40E+03 | 0* |
| Radioactive waste disposed | kg | 1.15E+00 | 4.89E-03 | 0* | 0* | 1.14E+00 | 0* |
| Other environmental information | Unit | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Materials for recycling | kg | 8.08E-01 | 1.01E-01 | 0* | 3.12E-01 | 0* | 3.95E-01 |
| Components for reuse | kg | 0.00E+00 | 0* | 0* | 0* | 0* | 0* |
| Materials for energy recovery | kg | 4.03E-02 | 0* | 0* | 0* | 0* | 4.03E-02 |
| Exported Energy | MJ | 9.86E-04 | 9.27E-05 | 0* | 8.93E-04 | 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).

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range.

Depending on the impact analysis, the environmental indicators (except RMD) of other products in this family may be proportional extrapolated by energy consumption values and RMD impact may be proportional extrapolated by mass of the product.

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.

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|---|------------------|-------------------------------------|--|
| Registration number | ENVPEP1904008_V1 | Drafting rules | PCR-ed3-EN-2015 04 02 |
| Date of issue | 05/2019 | Supplemented by | PSR-0005-ed2-EN-2016 03 29 |
| Validity period | 5 years | Information and reference documents | www.pep-ecopassport.org |
| Independent verification of the declaration and data | | | |
| Internal | X | External | |
| The elements of the present PEP cannot be compared with elements from another program. | | | |
| Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) » | | | |

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ENVPEP1904008EN_V1

Published by Schneider Electric

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05/2019