

Product Environmental Profile

EXW-SMART HUB





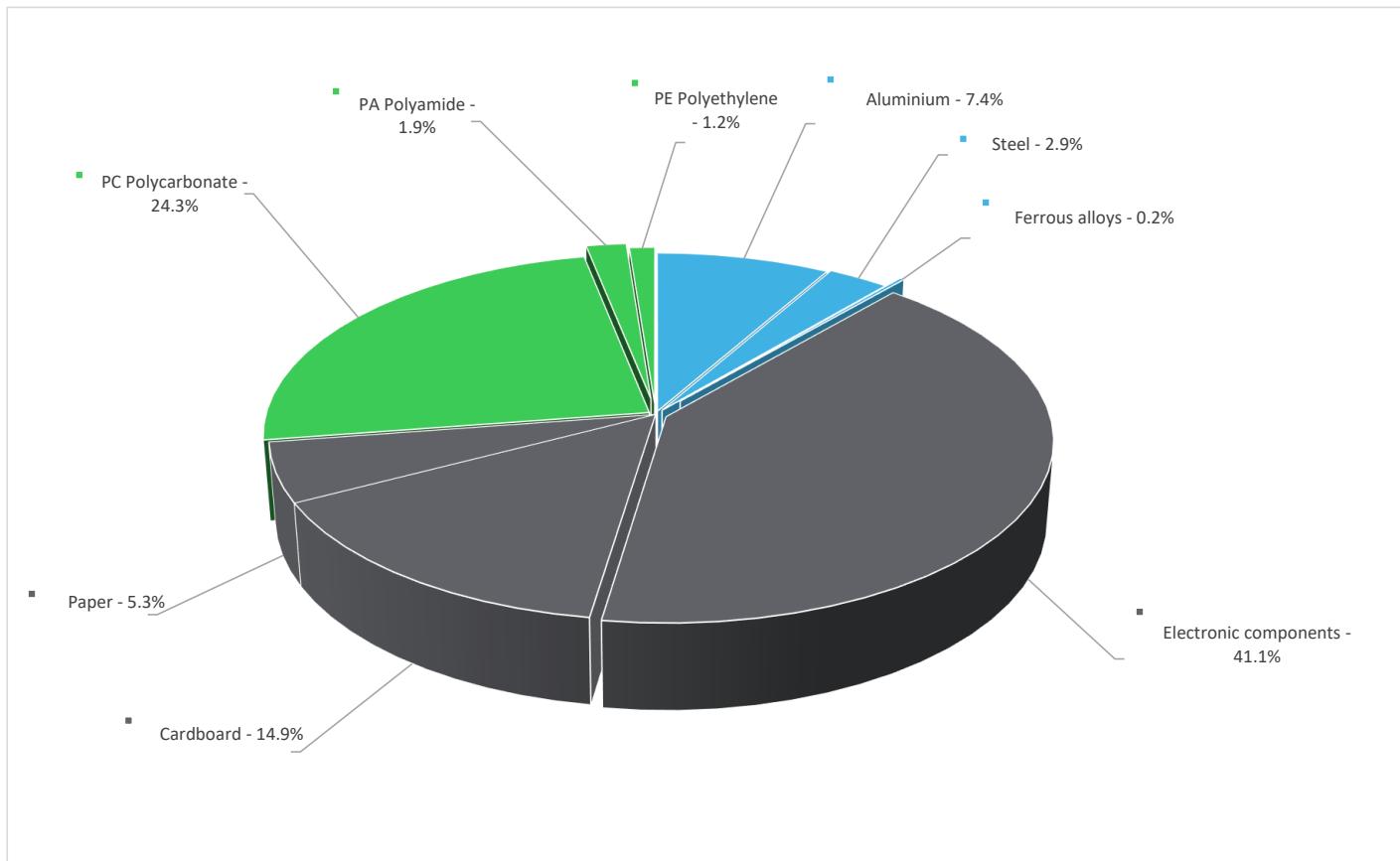
General information

| | |
|----------------------------|--|
| Reference product | EXW-SMART HUB - OVA53238 |
| Description of the product | Control unit for Emergency Lighting addressable System compliant to EN 60234 |
| Description of the range | Single product |
| Functional unit | This product is connected via bus to Exiway Dicube Luminaires. The main functions are Test Management in compliance with EN 62034 regulation, reporting and connection to the building management system during a lifespan of 10 years. |
| Specifications are: | The product has a consumption of 3 W and is designed to operate for 10 years thanks to its IP20 protection rating. The consumption of the product during its declared lifetime is 26 kWh (The usage scenario was considered according to the reference PSR which is a 100% standby mode for 10 years (8760 h/year)). |



Constituent materials

Reference product mass 340 g including the product, its packaging, additional elements and accessories



| | |
|----------|-------|
| Plastics | 27.4% |
| Metals | 11.3% |
| Others | 61.3% |



Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website
<https://www.se.com>



Additional environmental information

| | | | |
|-------------|--------------------------|-----|---|
| End Of Life | Recyclability potential: | 32% | The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability). |
|-------------|--------------------------|-----|---|



Environmental impacts

| | | | |
|----------------------------------|---|----------------|---|
| Reference service life time | 10 years | | |
| Product category | Control unit for Emergency Lighting | | |
| Life cycle of the product | The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study | | |
| Electricity consumtum | The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligable consumption | | |
| Installation elements | This product does not require any installation operations. | | |
| Use scenario | The dissipated power depends on the conditions under which the product is implemented and used. The Smart HUB is connected via bus to Exiway Dicube emergency Lighting luminaires. The electrical power consumed is 3 W in active mode 100 % of time | | |
| Time representativeness | The collected data are representative of the year 2025 | | |
| Technological representativeness | The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are Similar and représentaive of the actual type of technologies used to make the product. | | |
| Geographical representativeness | Final assembly site | Use phase | End-of-life |
| | Pieve di Cento | Europe | Europe |
| | [A1 - A3] | [A5] | [B6] |
| Energy model used | Electricity Mix; Low voltage; 2020; Italy, IT | No energy used | Electricity Mix; Low voltage; 2020; Europe, EU-27 |
| | | | Global, European and French datasets are used. |

The life cycle assessment is compliant with the specific rules applicable to Self-contained emergency electrical safety devices PSR-0007-ed2.1-EN-2023 12 08, available on the website www.pep-ecopassport.org » for the FR & EN PEP.

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.se.com/contact>

| Mandatory Indicators | | EXW-SMART HUB - OVA53238 | | | | | | |
|--|--------------|--------------------------|---------------------------|---------------------|---------------------|-----------------|-------------------------|--------------------------|
| Impact indicators | Unit | Total (without Module D) | [A1 - A3] - Manufacturing | [A4] - Distribution | [A5] - Installation | [B1 - B7] - Use | [C1 - C4] - End of life | [D] - Benefits and loads |
| Contribution to climate change | kg CO2 eq | 1.12E+02 | 4.12E+00 | 3.92E-01 | 7.64E-02 | 1.06E+02 | 7.34E-01 | -8.94E-02 |
| Contribution to climate change-fossil | kg CO2 eq | 1.09E+02 | 4.17E+00 | 3.92E-01 | 7.29E-02 | 1.04E+02 | 7.34E-01 | -9.56E-02 |
| Contribution to climate change-biogenic | kg CO2 eq | 2.30E+00 | 0* | 0* | 3.50E-03 | 2.35E+00 | 0* | 6.18E-03 |
| Contribution to climate change-land use and land use change | kg CO2 eq | 1.29E-04 | 1.29E-04 | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to ozone depletion | kg CFC-11 eq | 1.21E-06 | 4.10E-07 | 3.46E-07 | 9.61E-10 | 4.55E-07 | 1.41E-09 | -1.28E-08 |
| Contribution to acidification | mol H+ eq | 6.91E-01 | 1.33E-01 | 1.70E-03 | 2.18E-04 | 5.56E-01 | 6.37E-04 | -5.96E-04 |
| Contribution to eutrophication, freshwater | kg P eq | 7.61E-04 | 5.01E-04 | 0* | 1.70E-06 | 2.54E-04 | 3.30E-06 | -4.11E-07 |
| Contribution to eutrophication marine | kg N eq | 7.02E-02 | 4.01E-03 | 7.83E-04 | 9.43E-05 | 6.51E-02 | 2.71E-04 | -6.16E-05 |
| Contribution to eutrophication, terrestrial | mol N eq | 1.10E+00 | 4.30E-02 | 8.48E-03 | 6.59E-04 | 1.04E+00 | 2.83E-03 | -6.61E-04 |
| Contribution to photochemical ozone formation - human health | kg COVNM eq | 2.30E-01 | 2.00E-02 | 2.78E-03 | 1.51E-04 | 2.06E-01 | 7.20E-04 | -2.20E-04 |
| Contribution to resource use, minerals and metals | kg Sb eq | 2.02E-03 | 1.99E-03 | 0* | 0* | 3.44E-05 | 0* | -1.20E-05 |
| Contribution to resource use, fossils | MJ | 2.63E+03 | 7.25E+01 | 4.88E+00 | 7.40E-01 | 2.55E+03 | 3.22E+00 | -1.72E+00 |
| Contribution to water use | m3 eq | 3.92E+01 | 3.11E+01 | 1.99E-02 | 5.92E-03 | 8.05E+00 | 3.73E-02 | -2.95E-02 |

| Inventory flows Indicators | | EXW-SMART HUB - OVA53238 | | | | | | |
|---|------|--------------------------|---------------------------|---------------------|---------------------|-----------------|-------------------------|--------------------------|
| Inventory flows | Unit | Total (without Module D) | [A1 - A3] - Manufacturing | [A4] - Distribution | [A5] - Installation | [B1 - B7] - Use | [C1 - C4] - End of life | [D] - Benefits and loads |
| Contribution to use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 6.00E+02 | 2.98E+00 | 0* | 9.72E-02 | 5.97E+02 | 0* | -1.75E-02 |
| Contribution to use of renewable primary energy resources used as raw material | MJ | 5.43E-01 | 5.43E-01 | 0* | 0* | 0* | 0* | -1.00E-01 |
| Contribution to total use of renewable primary energy resources | MJ | 6.00E+02 | 3.52E+00 | 0* | 9.72E-02 | 5.97E+02 | 0* | -1.18E-01 |
| Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 2.62E+03 | 6.86E+01 | 4.88E+00 | 7.40E-01 | 2.55E+03 | 3.22E+00 | -1.68E+00 |
| Contribution to use of non renewable primary energy resources used as raw material | MJ | 3.91E+00 | 3.91E+00 | 0* | 0* | 0* | 0* | -3.62E-02 |
| Contribution to total use of non-renewable primary energy resources | MJ | 2.63E+03 | 7.25E+01 | 4.88E+00 | 7.40E-01 | 2.55E+03 | 3.22E+00 | -1.72E+00 |
| Contribution to use of secondary material | kg | 6.38E-02 | 6.38E-02 | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to use of renewable secondary fuels | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to use of non renewable secondary fuels | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to net use of freshwater | m³ | 9.15E-01 | 7.25E-01 | 4.63E-04 | 1.38E-04 | 1.88E-01 | 8.69E-04 | -6.87E-04 |
| Contribution to hazardous waste disposed | kg | 7.79E+00 | 4.71E+00 | 0* | 1.84E-03 | 2.93E+00 | 1.43E-01 | -9.51E-01 |
| Contribution to non hazardous waste disposed | kg | 1.78E+01 | 1.69E+00 | 0* | 3.29E-02 | 1.60E+01 | 1.03E-01 | -1.23E-01 |
| Contribution to radioactive waste disposed | kg | 4.86E-03 | 9.97E-04 | 7.79E-05 | 3.99E-06 | 3.77E-03 | 5.12E-06 | -8.59E-05 |
| Contribution to components for reuse | kg | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to materials for recycling | kg | 4.36E-02 | 5.18E-03 | 0* | 7.71E-04 | 0* | 3.76E-02 | 0.00E+00 |
| Contribution to materials for energy recovery | kg | 0.00E+00 | 0* | 0* | 0* | 0* | 0* | 0.00E+00 |
| Contribution to exported energy | MJ | 3.44E-03 | 5.73E-05 | 0* | 3.01E-03 | 0* | 3.72E-04 | 0.00E+00 |

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

Contribution to biogenic carbon content of the product kg of C 0.00E+00

Contribution to biogenic carbon content of the associated packaging kg of C 2.11E-02

* The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)

| Mandatory Indicators | | EXW-SMART HUB - OVA53238 | | | | | | | |
|--|--------------|--------------------------|------|------|------|------|------|----------|------|
| Impact indicators | Unit | [B1 - B7] - Use | [B1] | [B2] | [B3] | [B4] | [B5] | [B6] | [B7] |
| Contribution to climate change | kg CO2 eq | 1.06E+02 | 0* | 0* | 0* | 0* | 0* | 1.06E+02 | 0* |
| Contribution to climate change-fossil | kg CO2 eq | 1.04E+02 | 0* | 0* | 0* | 0* | 0* | 1.04E+02 | 0* |
| Contribution to climate change-biogenic | kg CO2 eq | 2.35E+00 | 0* | 0* | 0* | 0* | 0* | 2.35E+00 | 0* |
| Contribution to climate change-land use and land use change | kg CO2 eq | 0* | 0* | 0* | 0* | 0* | 0* | 0* | 0* |
| Contribution to ozone depletion | kg CFC-11 eq | 4.55E-07 | 0* | 0* | 0* | 0* | 0* | 4.55E-07 | 0* |
| Contribution to acidification | mol H+ eq | 5.56E-01 | 0* | 0* | 0* | 0* | 0* | 5.56E-01 | 0* |
| Contribution to eutrophication, freshwater | kg P eq | 2.54E-04 | 0* | 0* | 0* | 0* | 0* | 2.54E-04 | 0* |
| Contribution to eutrophication marine | kg N eq | 6.51E-02 | 0* | 0* | 0* | 0* | 0* | 6.51E-02 | 0* |
| Contribution to eutrophication, terrestrial | mol N eq | 1.04E+00 | 0* | 0* | 0* | 0* | 0* | 1.04E+00 | 0* |
| Contribution to photochemical ozone formation - human health | kg COVNM eq | 2.06E-01 | 0* | 0* | 0* | 0* | 0* | 2.06E-01 | 0* |
| Contribution to resource use, minerals and metals | kg Sb eq | 3.44E-05 | 0* | 0* | 0* | 0* | 0* | 3.44E-05 | 0* |
| Contribution to resource use, fossils | MJ | 2.55E+03 | 0* | 0* | 0* | 0* | 0* | 2.55E+03 | 0* |
| Contribution to water use | m3 eq | 8.05E+00 | 0* | 0* | 0* | 0* | 0* | 8.05E+00 | 0* |

| Inventory flows Indicators | | EXW-SMART HUB - OVA53238 | | | | | | | |
|---|------|--------------------------|------|------|------|------|------|----------|------|
| Inventory flows | Unit | [B1 - B7] - Use | [B1] | [B2] | [B3] | [B4] | [B5] | [B6] | [B7] |
| Contribution to use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 5.97E+02 | 0* | 0* | 0* | 0* | 0* | 5.97E+02 | 0* |
| Contribution to use of renewable primary energy resources used as raw material | MJ | 0* | 0* | 0* | 0* | 0* | 0* | 0* | 0* |
| Contribution to total use of renewable primary energy resources | MJ | 5.97E+02 | 0* | 0* | 0* | 0* | 0* | 5.97E+02 | 0* |
| Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 2.55E+03 | 0* | 0* | 0* | 0* | 0* | 2.55E+03 | 0* |
| Contribution to use of non renewable primary energy resources used as raw material | MJ | 0* | 0* | 0* | 0* | 0* | 0* | 0* | 0* |
| Contribution to total use of non-renewable primary energy resources | MJ | 2.55E+03 | 0* | 0* | 0* | 0* | 0* | 2.55E+03 | 0* |
| Contribution to use of secondary material | kg | 0* | 0* | 0* | 0* | 0* | 0* | 0* | 0* |
| Contribution to use of renewable secondary fuels | MJ | 0* | 0* | 0* | 0* | 0* | 0* | 0* | 0* |
| Contribution to use of non renewable secondary fuels | MJ | 0* | 0* | 0* | 0* | 0* | 0* | 0* | 0* |
| Contribution to net use of freshwater | m³ | 1.88E-01 | 0* | 0* | 0* | 0* | 0* | 1.88E-01 | 0* |
| Contribution to hazardous waste disposed | kg | 2.93E+00 | 0* | 0* | 0* | 0* | 0* | 2.93E+00 | 0* |
| Contribution to non hazardous waste disposed | kg | 1.60E+01 | 0* | 0* | 0* | 0* | 0* | 1.60E+01 | 0* |
| Contribution to radioactive waste disposed | kg | 3.77E-03 | 0* | 0* | 0* | 0* | 0* | 3.77E-03 | 0* |
| Contribution to components for reuse | kg | 0* | 0* | 0* | 0* | 0* | 0* | 0* | 0* |
| Contribution to materials for recycling | kg | 0* | 0* | 0* | 0* | 0* | 0* | 0* | 0* |
| Contribution to materials for energy recovery | kg | 0* | 0* | 0* | 0* | 0* | 0* | 0* | 0* |
| Contribution to exported energy | MJ | 0* | 0* | 0* | 0* | 0* | 0* | 0* | 0* |

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

Life cycle assessment performed with EIME version v6.2.4, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

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 : | SCHN-01344-V01.01-EN | Drafting rules | PEP-PCR-ed4-2021 09 06 |
| | | Supplemented by | No PSR |
| Verifier accreditation N° | VH08 | Information and reference documents | www.pep-ecopassport.org |
| Date of issue | 01-2025 | Validity period | 5 years |
| Independent verification of the declaration and data, in compliance with ISO 14025 : 2006 | | | |
| Internal | External | X | |
| The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain) | | | |
| PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022 | | | |
| The components of the present PEP may not be compared with components from any other program. | | | |
| Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations" | | | |
|  | | | |

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