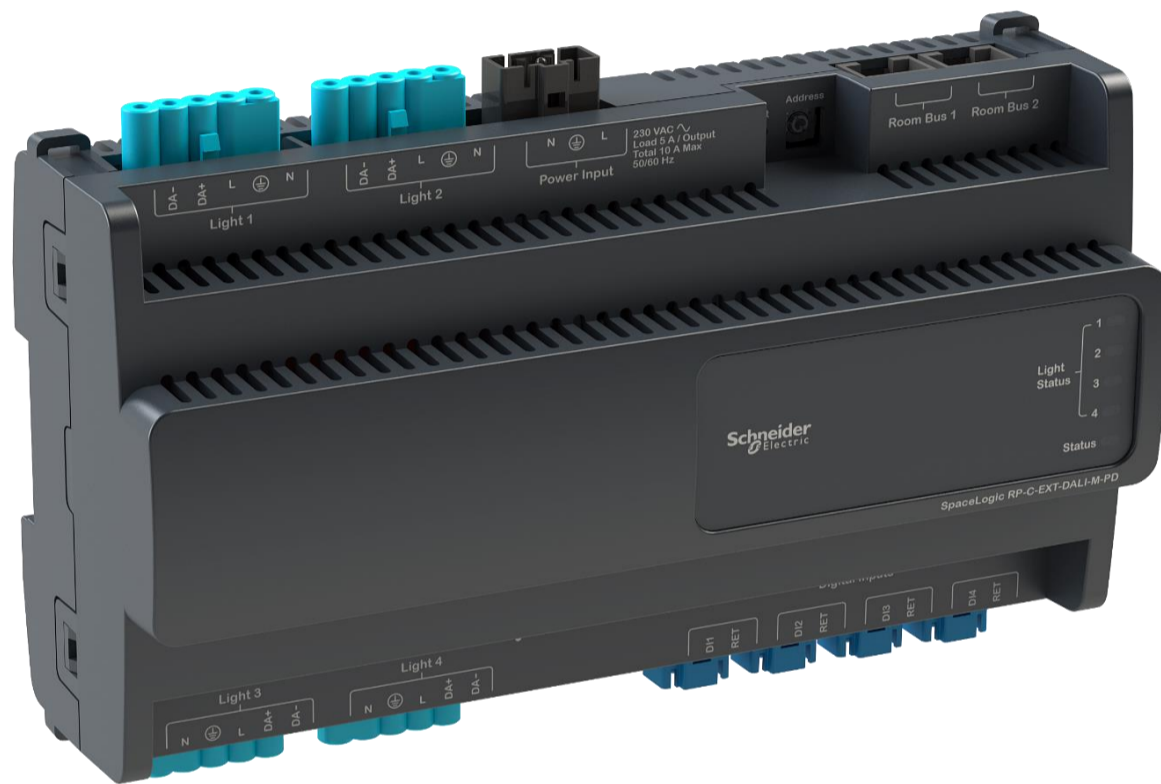


Product Environmental Profile

SpaceLogic RP-C-EXT-DALI-M-PD module





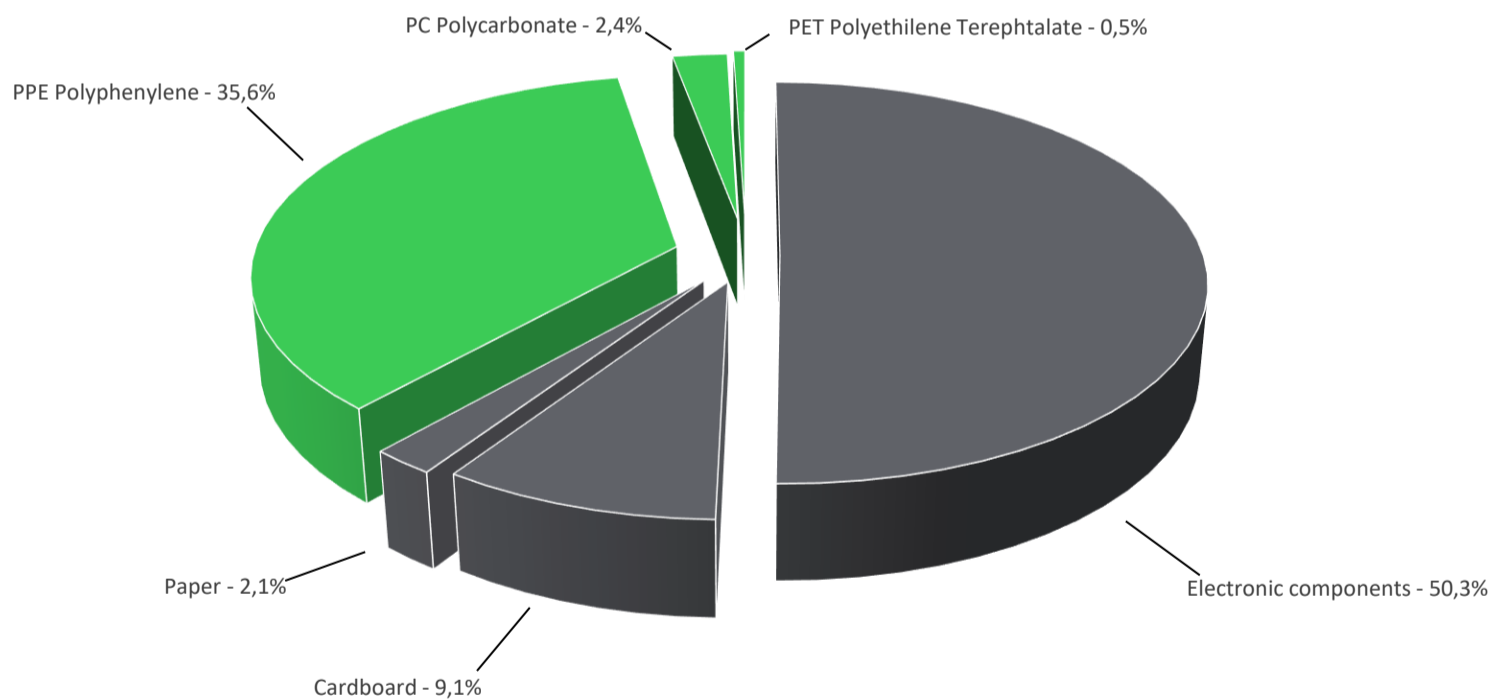
General information

| | |
|----------------------------|---|
| Reference product | SpaceLogic RP-C-EXT-DALI-M-PD module - SXWREDAMPD10001 |
| Description of the product | <p>The SpaceLogic RP-C-EXT-DALI-M-PD module connects to the RP controller and provides I/O expansion and power supply for lighting control with DALI (Digital Addressable Lighting Interface). The DALI light module enables power supply and control of lights equipped with DALI ballasts (DALI control gear). The DALI light module is a DALI-2 certified control device (application controller). This module is part of the RP Series expansion modules for connected room solution and can be combined with the other modules in the RP series.</p> <p>(This document describes the different stages of the product, from manufacturing to its end of life, for example the manufacturing stage includes the production and transportation of the product and its packaging through the entire process and to the last logistics platform. This product is assembled in Timisoara, Romania and distributed globally. For its end of life optimization, any dismantling or separation of parts required is carried out as mentioned in the document and in accordance with EU regulations, viz. WEEE.)</p> |
| Description of the range | Single product |
| Functional unit | Other switchgear and controlgear solutions mentioned in the scope (e.g. fuses TC32, all-or-nothing relays TC94, Measuring relays and protection equipment TC95), apply the general rules of PCR and mention in the accompanying report the functional unit, the reference product characteristics, the reference lifetime and the use scenario which are applied consistently with the relevant IEC technical standards. |
| Specifications are: | The SpaceLogic RP-C-EXT-DALI-M-PD module connects to the RP controller and provides I/O expansion and power supply for lighting control with DALI (Digital Addressable Lighting interface). One DALI channel is split into 4 inputs/outputs and can control up to 32 lights and up to 16 input devices. During its reference service lifetime of 10 years, this module is in active mode 100% of the time with a typical power consumption of 2W. |



Constituent materials

| | |
|------------------------|---|
| Reference product mass | 482,1 g including the product, its packaging, additional elements and accessories |
|------------------------|---|



| | |
|----------|-------|
| Plastics | 38,5% |
| Others | 61,5% |



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: | 2% | 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 | Other equipments - Active product | | | |
| 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 consumption | The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible consumption | | | |
| Installation elements | The product does not require any installation operations | | | |
| Use scenario | The product is estimated to be in active mode 100% of the time, with a typical power consumption of 2W, during a reference service lifetime of 10 years. | | | |
| Time representativeness | The collected data are representative of the year 2024 | | | |
| 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 representative of the actual type of technologies used to make the product. | | | |
| Geographical representativeness | Global | | | |
| Energy model used | [A1 - A3] | [A5] | [B6] | [C1 - C4] |
| | Electricity Mix; High voltage; 2020; Latvia, LV | Electricity Mix; Low voltage; 2020; France, FR | Electricity Mix; Low voltage; 2020; France, FR | Electricity Mix; Low voltage; 2020; France, FR |
| | | Electricity Mix; Low voltage; 2020; Norway, NO | Electricity Mix; Low voltage; 2020; Norway, NO | Electricity Mix; Low voltage; 2020; Norway, NO |
| | | Electricity Mix; Low voltage; 2020; Europe, EU-27 | Electricity Mix; Low voltage; 2020; Europe, EU-27 | Electricity Mix; Low voltage; 2020; Europe, EU-27 |
| | | Electricity Mix; Low voltage; 2020; Global, GLO | Electricity Mix; Low voltage; 2020; Global, GLO | Electricity Mix; Low voltage; 2020; Global, GLO |

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 | | SpaceLogic RP-C-EXT-DALI-M-PD module - SXWREDAMPD10001 | | | | | | |
|--|---------------------------|--|---------------------------|---------------------|---------------------|-----------------|-------------------------|--------------------------|
| 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 | 3,34E+01 | 1,62E+01 | 5,82E-02 | 0* | 1,59E+01 | 1,25E+00 | 1,46E-03 |
| Contribution to climate change-fossil | kg CO2 eq | 3,34E+01 | 1,62E+01 | 5,82E-02 | 0* | 1,59E+01 | 1,23E+00 | -1,01E-02 |
| Contribution to climate change-biogenic | kg CO2 eq | 4,74E-02 | 0* | 0* | 0* | 5,53E-02 | 1,58E-02 | 1,16E-02 |
| Contribution to climate change-land use and land use change | kg CO2 eq | 1,48E-05 | 1,48E-05 | 0* | 0* | 0* | 0* | 0,00E+00 |
| Contribution to ozone depletion | kg CFC-11 eq | 2,32E-06 | 2,13E-06 | 0* | 0* | 1,86E-07 | 3,32E-09 | -3,13E-10 |
| Contribution to acidification | mol H+ eq | 2,06E-01 | 1,19E-01 | 3,69E-04 | 0* | 8,49E-02 | 9,63E-04 | -5,38E-05 |
| Contribution to eutrophication, freshwater | kg (PO4) ³⁻ eq | 4,78E-04 | 3,65E-05 | 0* | 0* | 4,36E-04 | 5,51E-06 | -1,59E-07 |
| Contribution to eutrophication marine | kg N eq | 2,54E-02 | 1,31E-02 | 1,73E-04 | 0* | 1,16E-02 | 4,45E-04 | -1,63E-05 |
| Contribution to eutrophication, terrestrial | mol N eq | 3,29E-01 | 1,42E-01 | 1,90E-03 | 0* | 1,80E-01 | 4,66E-03 | -1,35E-04 |
| Contribution to photochemical ozone formation - human health | kg COVNM eq | 8,39E-02 | 4,77E-02 | 4,79E-04 | 0* | 3,46E-02 | 1,13E-03 | -3,48E-05 |
| Contribution to resource use, minerals and metals | kg Sb eq | 3,91E-03 | 3,89E-03 | 0* | 0* | 1,92E-05 | 0* | -1,08E-09 |
| Contribution to resource use, fossils | MJ | 2,11E+03 | 2,42E+02 | 8,13E-01 | 0* | 1,87E+03 | 1,71E+00 | -1,23E-01 |
| Contribution to water use | m3 eq | 1,14E+01 | 8,36E+00 | 0* | 0* | 2,95E+00 | 7,12E-02 | -2,52E-03 |

| Inventory flows Indicators | | SpaceLogic RP-C-EXT-DALI-M-PD module - SXWREDAMPD10001 | | | | | | | |
|---|---------------------------|--|---------------------------|---------------------|---------------------|-----------------|-------------------------|--------------------------|------|
| 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 | 3,15E+02 | 6,79E+00 | 0* | 0* | 3,08E+02 | 1,28E-01 | 3,40E-02 | |
| Contribution to use of renewable primary energy resources used as raw material | MJ | 1,07E+00 | 1,07E+00 | 0* | 0* | 0* | 0* | -1,48E-01 | |
| Contribution to total use of renewable primary energy resources | MJ | 3,16E+02 | 7,86E+00 | 0* | 0* | 3,08E+02 | 1,28E-01 | -1,14E-01 | |
| Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 2,10E+03 | 2,33E+02 | 8,13E-01 | 0* | 1,87E+03 | 1,71E+00 | -1,23E-01 | |
| Contribution to use of non renewable primary energy resources used as raw material | MJ | 9,28E+00 | 9,28E+00 | 0* | 0* | 0* | 0* | 0,00E+00 | |
| Contribution to total use of non-renewable primary energy resources | MJ | 2,11E+03 | 2,42E+02 | 8,13E-01 | 0* | 1,87E+03 | 1,71E+00 | -1,23E-01 | |
| Contribution to use of secondary material | kg | 3,74E-05 | 3,74E-05 | 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 | 2,66E-01 | 1,95E-01 | 0* | 0* | 6,92E-02 | 1,66E-03 | -5,88E-05 | |
| Contribution to hazardous waste disposed | kg | 3,25E+01 | 3,11E+01 | 0* | 0* | 1,21E+00 | 2,41E-01 | -3,08E-04 | |
| Contribution to non hazardous waste disposed | kg | 8,79E+00 | 4,19E+00 | 2,05E-03 | 0* | 4,39E+00 | 2,13E-01 | -6,11E-03 | |
| Contribution to radioactive waste disposed | kg | 2,39E-03 | 1,69E-03 | 1,46E-06 | 0* | 6,86E-04 | 1,01E-05 | -2,80E-06 | |
| Contribution to components for reuse | kg | 0,00E+00 | 0* | 0* | 0* | 0* | 0* | 0,00E+00 | |
| Contribution to materials for recycling | kg | 8,20E-03 | 2,28E-06 | 0* | 0* | 0* | 8,20E-03 | 0,00E+00 | |
| Contribution to materials for energy recovery | kg | 4,63E-08 | 4,63E-08 | 0* | 0* | 0* | 0* | 0,00E+00 | |
| Contribution to exported energy | MJ | 5,24E-04 | 8,47E-06 | 0* | 0* | 0* | 5,16E-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 | 1,22E-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 | | SpaceLogic RP-C-EXT-DALI-M-PD module - SXWREDAMPD10001 | | | | | | | |
| Impact indicators | Unit | [B1 - B7] - Use | [B1] | [B2] | [B3] | [B4] | [B5] | [B6] | [B7] |
| Contribution to climate change | kg CO2 eq | 1,59E+01 | 0* | 0* | 0* | 0* | 0* | 1,59E+01 | 0* |
| Contribution to climate change-fossil | kg CO2 eq | 1,59E+01 | 0* | 0* | 0* | 0* | 0* | 1,59E+01 | 0* |
| Contribution to climate change-biogenic | kg CO2 eq | 5,53E-02 | 0* | 0* | 0* | 0* | 0* | 5,53E-02 | 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 | 1,86E-07 | 0* | 0* | 0* | 0* | 0* | 1,86E-07 | 0* |
| Contribution to acidification | mol H+ eq | 8,49E-02 | 0* | 0* | 0* | 0* | 0* | 8,49E-02 | 0* |
| Contribution to eutrophication, freshwater | kg (PO4) ³⁻ eq | 4,36E-04 | 0* | 0* | 0* | 0* | 0* | 4,36E-04 | 0* |
| Contribution to eutrophication marine | kg N eq | 1,16E-02 | 0* | 0* | 0* | 0* | 0* | 1,16E-02 | 0* |
| Contribution to eutrophication, terrestrial | mol N eq | 1,80E-01 | 0* | 0* | 0* | 0* | 0* | 1,80E-01 | 0* |
| Contribution to photochemical ozone formation - human health | kg COVNM eq | 3,46E-02 | 0* | 0* | 0* | 0* | 0* | 3,46E-02 | 0* |
| Contribution to resource use, minerals and metals | kg Sb eq | 1,92E-05 | 0* | 0* | 0* | 0* | 0* | 1,92E-05 | 0* |
| Contribution to resource use, fossils | MJ | 1,87E+03 | 0* | 0* | 0* | 0* | 0* | 1,87E+03 | 0* |
| Contribution to water use | m3 eq | 2,95E+00 | 0* | 0* | 0* | 0* | 0* | 2,95E+00 | 0* |

