Product Environmental Profile

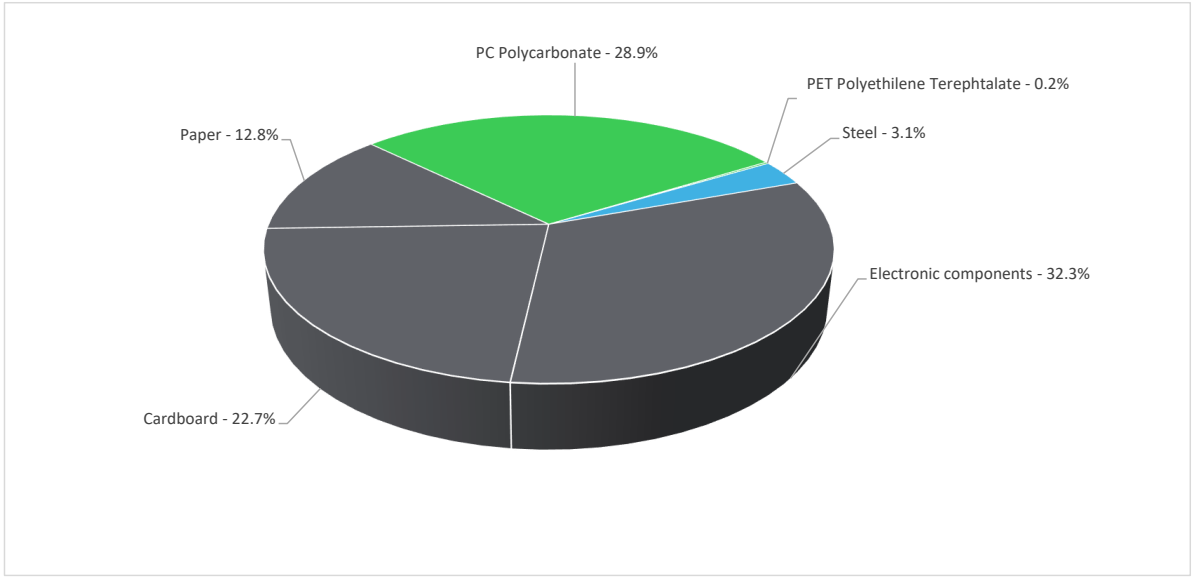
SPACELYNK LOGIC CONTROLLER

General information

Reference product	SpaceLYnk logic controller - LSS100200
Description of the product	The SpaceLYnk Logic Controller is a multifunctional building automation controller designed for integration into KNX-based and multi-protocol building management systems. It operates as a centralized automation, visualization, and communication platform that unifies KNX, DALI, Modbus, BACnet, and third-party devices within a single architecture.
Description of the range	Single product
Functional unit	The device functions as a multi-protocol gateway that integrates KNX, Modbus, BACnet, DALI, and RS-232 systems, enabling seamless communication and centralized control of building-automation equipment. It aggregates and analyzes data, provides web-based visualization, and executes automation tasks such as scheduling, logic processing, and event notifications.It is designed to operate within its rated supply voltage (Ue), rated current (Ie), and network frequency. Its IP and IK protection ratings comply with the relevant IEC standards, ensuring reliable performance according to the appropriate use scenario and for a reference lifetime of 10 years.
Specifications are:	- Rated Voltage (Ue): 230V - Rated Current (Ie): 0.05A - Network Frequency (Fn): 50-60 Hz - IP Rating: IP20 - IK Rating: IK6 - IEC 60950-1

Constituent materials

Reference product mass	159 g	including the product and its packaging



	Plastics	29.1%
	Metals	3.1%
	Others	67.8%

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:	**5%**	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 negligable consumption
Installation elements	The product installation requires little to no energy. The disposal of packaging materials is also accounted during the installation phase, including transport to disposal. The material constituents of the packaging are Cardboard (64.9%) and Paper (36.1%)
Use scenario	The active products operate in active mode 100% of the time with a power use of 1.4W over a period of 10 years.
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 representative of the actual type of technologies used to make the product.

Geographical representativeness	**Final assembly site**	**Use phase**		**End-of-life**
	Latvia,Europe	Europe, Asia Pacific, China, Chile & Turkey		Europe, Asia Pacific, China, Chile & Turkey
Energy model used	**[A1 - A3]**	**[A5]**	**[B6]**	**[C1 - C4]**
	Electricity Mix; Europe, RER Electricity Mix; France, FR Electricity Mix; Lativa, LV Electricity Mix; China, CN Electricity Mix; Singapore, SP	Electricity Mix; Low voltage; Europe, EU	Electricity Mix; Low voltage; 2022; Europe, EU-27 Electricity Mix; Low voltage; 2022; Asia Pacific, APAC Electricity Mix; Low voltage; 2022; China, CN Electricity Mix; Low voltage; 2022; Chile, CL Electricity Mix; Low voltage; 2022; Turkey, TR	Global, European and French datasets are used.

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		**SpaceLYnk logic controller - LSS100200**						
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	6.87E+01	1.85E+01	8.20E-02	1.45E-01	4.98E+01	1.91E-01	-9.87E-03
Contribution to climate change-fossil	kg CO2 eq	6.80E+01	1.85E+01	8.17E-02	6.51E-02	4.91E+01	1.91E-01	-7.46E-02
Contribution to climate change-biogenic	kg CO2 eq	7.67E-01	-2.53E-02	3.03E-04	7.97E-02	7.12E-01	1.91E-04	6.48E-02
Contribution to climate change-land use and land use change	kg CO2 eq	7.81E-05	7.71E-05	2.67E-07	0*	7.29E-07	3.56E-08	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	3.14E-06	2.77E-06	1.85E-09	8.80E-10	3.66E-07	1.40E-09	-4.42E-09
Contribution to acidification	mol H+ eq	4.10E-01	7.74E-02	1.82E-04	1.90E-04	3.32E-01	2.12E-04	-4.07E-04
Contribution to eutrophication, freshwater	kg P eq	1.44E-04	6.16E-05	3.37E-07	1.37E-06	7.98E-05	1.26E-06	-9.16E-07
Contribution to eutrophication marine	kg N eq	4.34E-02	8.57E-03	3.32E-05	8.03E-05	3.46E-02	6.12E-05	-1.02E-04
Contribution to eutrophication, terrestrial	mol N eq	5.85E-01	9.59E-02	3.67E-04	5.77E-04	4.88E-01	6.78E-04	-8.75E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.44E-01	2.84E-02	1.14E-04	1.32E-04	1.15E-01	1.55E-04	-2.37E-04
Contribution to resource use, minerals and metals	kg Sb eq	5.60E-03	5.51E-03	0*	0*	8.79E-05	0*	-5.81E-06
Contribution to resource use, fossils	MJ	1.25E+03	1.87E+02	1.72E+00	6.27E-01	1.06E+03	7.86E-01	-1.11E+00
Contribution to water use	m3 eq	1.00E+01	7.12E+00	5.49E-03	5.24E-03	2.86E+00	5.04E-03	-2.19E-02

Inventory flows Indicators		SpaceLYnk logic controller - LSS100200						
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	5.44E+02	2.56E+01	0*	8.87E-02	5.18E+02	7.02E-02	1.87E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	5.82E-01	5.82E-01	0*	0*	0*	0*	-8.25E-01
Contribution to total use of renewable primary energy resources	MJ	5.44E+02	2.62E+01	0*	8.87E-02	5.18E+02	7.02E-02	-6.38E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.25E+03	1.85E+02	1.72E+00	6.27E-01	1.06E+03	7.86E-01	-1.11E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	2.19E+00	2.19E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	1.25E+03	1.87E+02	1.72E+00	6.27E-01	1.06E+03	7.86E-01	-1.11E+00
Contribution to use of secondary material	kg	2.83E-02	2.83E-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	2.35E-01	1.66E-01	1.28E-04	4.06E-04	6.80E-02	1.25E-04	-5.09E-04
Contribution to hazardous waste disposed	kg	1.02E+02	9.96E+01	0*	0*	2.03E+00	6.79E-02	-4.60E-01
Contribution to non hazardous waste disposed	kg	1.28E+01	3.57E+00	1.65E-02	2.30E-02	9.20E+00	1.04E-02	-4.91E-02
Contribution to radioactive waste disposed	kg	1.66E-03	3.69E-04	1.30E-05	4.16E-06	1.27E-03	2.80E-06	-2.24E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	7.47E-02	2.41E-02	0*	4.58E-02	0*	4.74E-03	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	2.49E-03	7.89E-06	0*	2.44E-03	0*	4.69E-05	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	1.76E-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		SpaceLYnk logic controller - LSS100200							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	4.98E+01	0*	0*	0*	0*	0*	4.98E+01	0*
Contribution to climate change-fossil	kg CO2 eq	4.91E+01	0*	0*	0*	0*	0*	4.91E+01	0*
Contribution to climate change-biogenic	kg CO2 eq	7.12E-01	0*	0*	0*	0*	0*	7.12E-01	0*
Contribution to climate change-land use and land use change	kg CO2 eq	7.29E-07	0*	0*	0*	0*	0*	7.29E-07	0*
Contribution to ozone depletion	kg CFC-11 eq	3.66E-07	0*	0*	0*	0*	0*	3.66E-07	0*
Contribution to acidification	mol H+ eq	3.32E-01	0*	0*	0*	0*	0*	3.32E-01	0*
Contribution to eutrophication, freshwater	kg P eq	7.98E-05	0*	0*	0*	0*	0*	7.98E-05	0*
Contribution to eutrophication marine	kg N eq	3.46E-02	0*	0*	0*	0*	0*	3.46E-02	0*
Contribution to eutrophication, terrestrial	mol N eq	4.88E-01	0*	0*	0*	0*	0*	4.88E-01	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.15E-01	0*	0*	0*	0*	0*	1.15E-01	0*
Contribution to resource use, minerals and metals	kg Sb eq	8.79E-05	0*	0*	0*	0*	0*	8.79E-05	0*
Contribution to resource use, fossils	MJ	1.06E+03	0*	0*	0*	0*	0*	1.06E+03	0*
Contribution to water use	m3 eq	2.86E+00	0*	0*	0*	0*	0*	2.86E+00	0*

Inventory flows Indicators		SpaceLYnk logic controller - LSS100200							
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	5.18E+02	0*	0*	0*	0*	0*	5.18E+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	5.18E+02	0*	0*	0*	0*	0*	5.18E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.06E+03	0*	0*	0*	0*	0*	1.06E+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	1.06E+03	0*	0*	0*	0*	0*	1.06E+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	6.80E-02	0*	0*	0*	0*	0*	6.80E-02	0*
Contribution to hazardous waste disposed	kg	2.03E+00	0*	0*	0*	0*	0*	2.03E+00	0*
Contribution to non hazardous waste disposed	kg	9.20E+00	0*	0*	0*	0*	0*	9.20E+00	0*
Contribution to radioactive waste disposed	kg	1.27E-03	0*	0*	0*	0*	0*	1.27E-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 v6.2.5-6, 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.

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Date of issue	03-2026		
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 NF C08-100-1:2022 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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