

Product Environmental Profile

SPACELOGIC KNX DALI BROADCAST MASTER





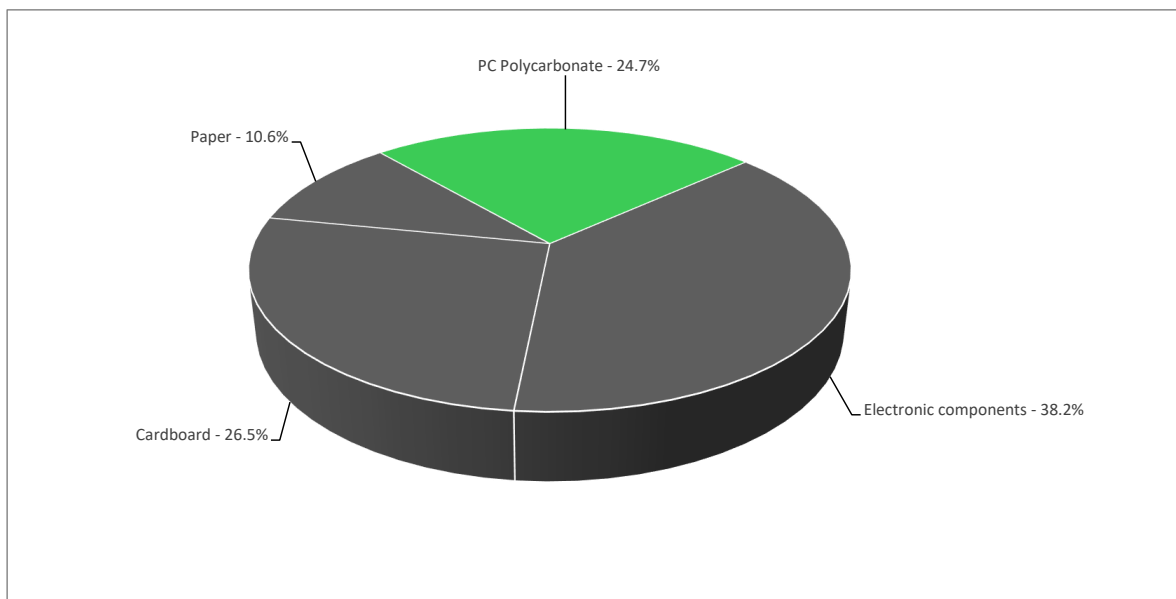
General information

Reference product	SPACELOGIC KNX DALI BROADCAST MASTER - MTN6725-0005S
Description of the product	The SpaceLogic KNX DALI Broadcast Master is a advanced lighting control device that integrates with KNX systems and DALI technology. It supports 4 channels, enabling the simultaneous control of multiple lighting circuits, making it ideal for efficient and flexible lighting management in building automation.
Description of the range	Single product
Functional unit	The device transforms switching and dimming commands from the connected KNX system into corresponding DALI telegrams, and it also converts status and event information from the DALI bus into KNX telegrams. It is designed to operate within a voltage range of Ue, as well as network frequency and rated current Ie, ensuring compatibility with standard power supplies. Additionally, it is intended for permanent use 24 hours a day, with a minimum expected lifetime of 10 years.
Specifications are:	<ul style="list-style-type: none"> - Rated Voltage (Ue): 100-240 VAC - Rated Current (Ie): 2 x 250 mA max - Network Frequency (Fn): 50-60 Hz - IP Rating: IP20 - IK Rating: IK03 - EN 62386 + IEC 62386



Constituent materials

Reference product mass	272 g	including the product, its packaging, additional elements and accessories
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Plastics	24.7%
Others	75.3%
Metals	0.0%



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:	0%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REECYLAB 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).
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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 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 (71.54%), Paper (28.45%) and Plastic (0.01%).		
Use scenario	The active products operate in active mode 10% of the time with a power use of 0.8W for one gateway, in Other mode 1 60% of the time with a power use of 3.8W if 20 gateways are connected, and in Other mode 2 30% of the time with a power use of 7.8W if 30 gateways are connected over a period 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	Final assembly site	Use phase	
	IPAS GmbH, Germany	Europe, MEA	
Energy model used	[A1 - A3]	[A5]	[B6]
	Electricity Mix; Brazil, BR Electricity Mix; Europe, RER Electricity Mix; France, FR	Electricity Mix; Europe, RER	Electricity Mix; Low voltage; 2020; Europe, EU-27
			[C1 - C4]
			Electricity Mix; Europe, RER

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 KNX DALI BROADCAST MASTER - MTN6725-0005S						
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	1.79E+02	1.14E+01	1.42E-01	1.08E-01	1.66E+02	5.00E-01	0.00E+00
Contribution to climate change-fossil	kg CO2 eq	1.75E+02	1.14E+01	1.42E-01	1.03E-01	1.63E+02	4.98E-01	0.00E+00
Contribution to climate change-biogenic	kg CO2 eq	3.65E+00	0*	0*	5.12E-03	3.68E+00	2.14E-03	0.00E+00
Contribution to climate change-land use and land use change	kg CO2 eq	9.21E-05	9.21E-05	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	5.71E-06	4.86E-06	1.26E-07	1.40E-09	7.13E-07	0*	0.00E+00
Contribution to acidification	mol H+ eq	9.21E-01	4.83E-02	6.00E-04	3.16E-04	8.71E-01	3.38E-04	0.00E+00
Contribution to eutrophication, freshwater	kg P eq	4.58E-04	5.44E-05	0*	2.47E-06	3.99E-04	2.39E-06	0.00E+00
Contribution to eutrophication marine	kg N eq	1.12E-01	9.70E-03	2.74E-04	1.37E-04	1.02E-01	1.65E-04	0.00E+00
Contribution to eutrophication, terrestrial	mol N eq	1.74E+00	1.01E-01	2.97E-03	9.55E-04	1.63E+00	1.71E-03	0.00E+00
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.59E-01	3.44E-02	9.84E-04	2.19E-04	3.23E-01	4.14E-04	0.00E+00
Contribution to resource use, minerals and metals	kg Sb eq	8.17E-03	8.11E-03	0*	0*	5.40E-05	0*	0.00E+00
Contribution to resource use, fossils	MJ	4.18E+03	1.90E+02	1.77E+00	1.07E+00	3.99E+03	6.20E-01	0.00E+00
Contribution to water use	m3 eq	2.18E+01	9.11E+00	7.22E-03	8.33E-03	1.26E+01	1.94E-02	0.00E+00

Inventory flows Indicators		SPACELOGIC KNX DALI BROADCAST MASTER - MTN6725-0005S						
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	9.39E+02	4.42E+00	0*	1.40E-01	9.35E+02	0*	0.00E+00
Contribution to use of renewable primary energy resources used as raw material	MJ	2.02E+00	2.02E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of renewable primary energy resources	MJ	9.41E+02	6.44E+00	0*	1.40E-01	9.35E+02	0*	0.00E+00
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.18E+03	1.87E+02	1.77E+00	1.07E+00	3.99E+03	6.20E-01	0.00E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	3.04E+00	3.04E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	4.18E+03	1.90E+02	1.77E+00	1.07E+00	3.99E+03	6.20E-01	0.00E+00
Contribution to use of secondary material	kg	0.00E+00	0*	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	5.08E-01	2.12E-01	1.68E-04	1.94E-04	2.95E-01	4.52E-04	0.00E+00
Contribution to hazardous waste disposed	kg	1.56E+02	1.51E+02	0*	0*	4.59E+00	1.01E-01	0.00E+00
Contribution to non hazardous waste disposed	kg	3.11E+01	5.94E+00	0*	4.62E-02	2.51E+01	7.60E-02	0.00E+00
Contribution to radioactive waste disposed	kg	3.14E-02	2.55E-02	2.83E-05	5.70E-06	5.91E-03	3.33E-06	0.00E+00
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	5.43E-06	1.33E-06	0*	4.10E-06	0*	0*	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	0.00E+00	0*	0*	0*	0*	0*	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	1.01E-01						
Contribution to biogenic carbon content of the associated packaging	kg of C	3.11E-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		SPACELOGIC KNX DALI BROADCAST MASTER - MTN6725-0005S							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	1.66E+02	0*	0*	0*	0*	0*	1.66E+02	0*
Contribution to climate change-fossil	kg CO2 eq	1.63E+02	0*	0*	0*	0*	0*	1.63E+02	0*
Contribution to climate change-biogenic	kg CO2 eq	3.68E+00	0*	0*	0*	0*	0*	3.68E+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	7.13E-07	0*	0*	0*	0*	0*	7.13E-07	0*
Contribution to acidification	mol H+ eq	8.71E-01	0*	0*	0*	0*	0*	8.71E-01	0*
Contribution to eutrophication, freshwater	kg P eq	3.99E-04	0*	0*	0*	0*	0*	3.99E-04	0*
Contribution to eutrophication marine	kg N eq	1.02E-01	0*	0*	0*	0*	0*	1.02E-01	0*
Contribution to eutrophication, terrestrial	mol N eq	1.63E+00	0*	0*	0*	0*	0*	1.63E+00	0*
Contribution to photochemical ozone formation - human health	kg COVM eq	3.23E-01	0*	0*	0*	0*	0*	3.23E-01	0*
Contribution to resource use, minerals and metals	kg Sb eq	5.40E-05	0*	0*	0*	0*	0*	5.40E-05	0*
Contribution to resource use, fossils	MJ	3.99E+03	0*	0*	0*	0*	0*	3.99E+03	0*
Contribution to water use	m3 eq	1.26E+01	0*	0*	0*	0*	0*	1.26E+01	0*

Inventory flows Indicators		SPACELOGIC KNX DALI BROADCAST MASTER - MTN6725-0005S							
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	9.35E+02	0*	0*	0*	0*	0*	9.35E+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	9.35E+02	0*	0*	0*	0*	0*	9.35E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.99E+03	0*	0*	0*	0*	0*	3.99E+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	3.99E+03	0*	0*	0*	0*	0*	3.99E+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	2.95E-01	0*	0*	0*	0*	0*	2.95E-01	0*
Contribution to hazardous waste disposed	kg	4.59E+00	0*	0*	0*	0*	0*	4.59E+00	0*
Contribution to non hazardous waste disposed	kg	2.51E+01	0*	0*	0*	0*	0*	2.51E+01	0*
Contribution to radioactive waste disposed	kg	5.91E-03	0*	0*	0*	0*	0*	5.91E-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, database version 2024-02 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-01385-V01.01-EN	Drafting rules	PEP-PCR-ed4-2021 09 06
Validity period	5 years	Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Verifier accreditation N°	VH42	Information and reference documents	www.pep-ecopassport.org
Date of issue	03-2025		
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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Published by Schneider Electric

SCHN-01385-V01.01-EN

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03-2025