

Product Environmental Profile

SpaceLogic Central I/O UI-8/DO-FC-4-H-2





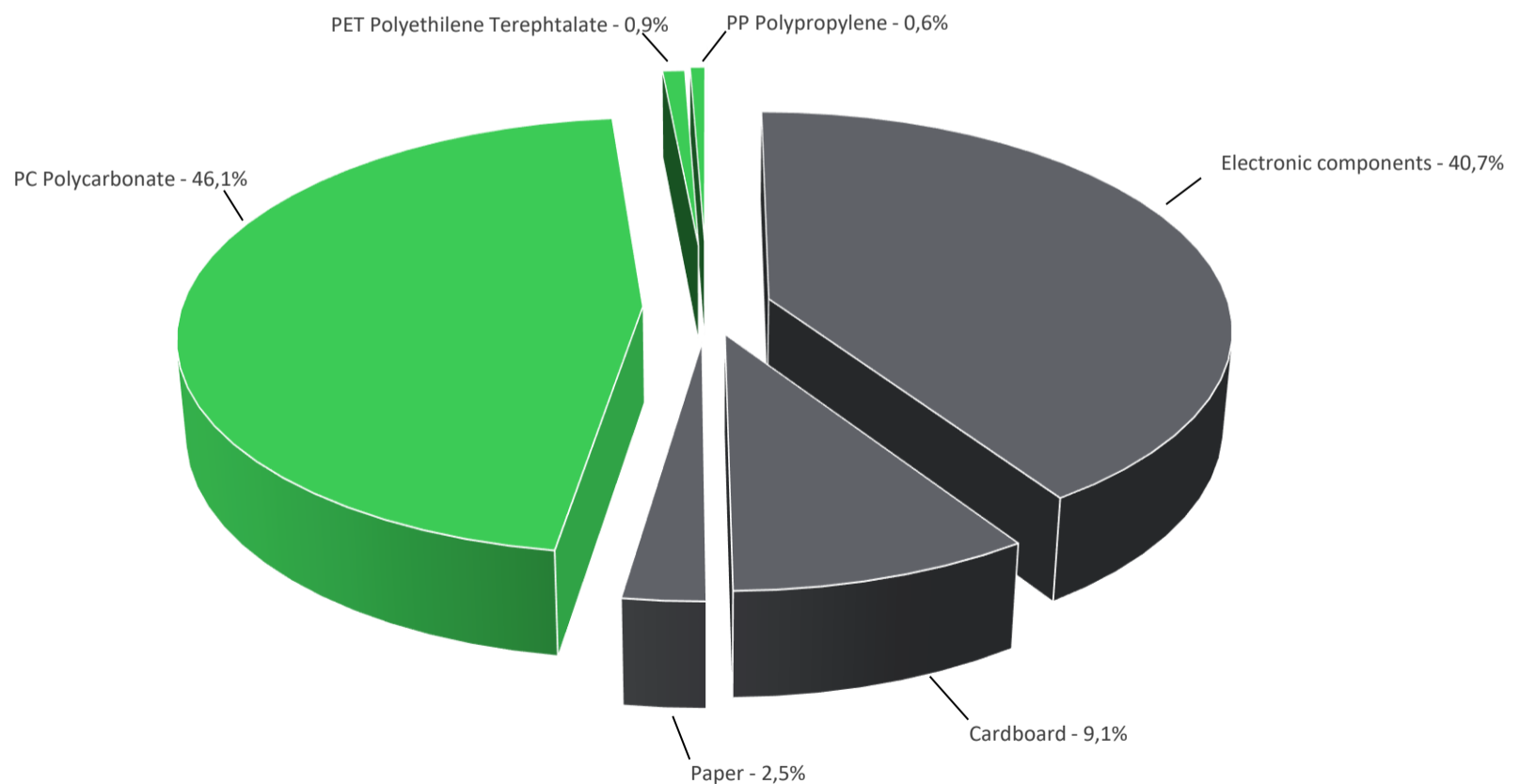
General information

Reference product	SpaceLogic Central I/O UI-8/DO-FC-4-H-2 - SXWUI8D4H10002
Description of the product	<p>The SpaceLogic UI-8/DO-FC-4-H-2 is a universal input, 8 channel and digital output, 4 channel I/O expansion module for the SpaceLogic AS-P. The universal inputs are ideal for any mix of temperature, pressure, flow, status points and similar point types in a building control system. The digital outputs support digital Form C point types designed for direct load applications. The UI-8/DO-FC-4-H-2 I/O expansion module features 8 universal inputs and 4 digital Form C outputs with hand/off/auto override switches.</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 UI-8/DO-FC-4-H-2 is one of the SpaceLogic Central I/O modules operating as an expansion module for the SpaceLogic AS-P. It has 8 Universal Inputs, 4 Digital Outputs and override switches. The outputs support digital Form C point types designed for direct load applications and the inputs are ideally used for datapoints in a building control system like temperature, pressure, flow and status. During its reference service lifetime of 10 years, the controller is in active mode 100% of the time with a maximum power consumption of 1,9W



Constituent materials

Reference product mass	193,69 g including the product, its packaging, additional elements and accessories
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Plastics	47,6%
Metals	0%
Others	52,3%

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:	0%	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).
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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 does not require any installation operations			
Use scenario	See PSR			
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; China, CN Electricity Mix; Low voltage; 2020; Europe, EU-27 Electricity Mix; Low voltage; 2020; United States, US Electricity Mix; Low voltage; 2020; Global, GLO	Electricity Mix; Low voltage; 2020; China, CN Electricity Mix; Low voltage; 2020; Europe, EU-27 Electricity Mix; Low voltage; 2020; United States, US Electricity Mix; Low voltage; 2020; Global, GLO	Electricity Mix; Low voltage; 2020; China, CN Electricity Mix; Low voltage; 2020; Europe, EU-27 Electricity Mix; Low voltage; 2020; United States, US 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 Central I/O UI-8/DO-FC-4-H-2 - SXWUI8D4H10002						
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	7,58E+01	6,49E+00	2,34E-02	0*	6,88E+01	5,05E-01	0,00E+00
Contribution to climate change-fossil	kg CO2 eq	7,57E+01	6,49E+00	2,34E-02	0*	6,87E+01	5,04E-01	0,00E+00
Contribution to climate change-biogenic	kg CO2 eq	1,05E-01	0*	0*	0*	1,08E-01	7,01E-04	0,00E+00
Contribution to climate change-land use and land use change	kg CO2 eq	9,57E-05	9,57E-05	0*	0*	0*	0*	0,00E+00
Contribution to ozone depletion	kg CFC-11 eq	1,09E-06	7,81E-07	0*	0*	3,10E-07	5,07E-10	0,00E+00
Contribution to acidification	mol H+ eq	3,92E-01	4,52E-02	1,48E-04	0*	3,47E-01	3,40E-04	0,00E+00
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	1,63E-04	1,59E-05	0*	0*	1,45E-04	1,86E-06	0,00E+00
Contribution to eutrophication marine	kg N eq	4,78E-02	5,24E-03	6,95E-05	5,43E-06	4,23E-02	1,60E-04	0,00E+00
Contribution to eutrophication, terrestrial	mol N eq	6,57E-01	5,69E-02	7,63E-04	0*	5,98E-01	1,70E-03	0,00E+00
Contribution to photochemical ozone formation - human health	kg COVNM eq	1,56E-01	1,88E-02	1,92E-04	0*	1,36E-01	4,10E-04	0,00E+00
Contribution to resource use, minerals and metals	kg Sb eq	2,70E-03	2,68E-03	0*	0*	1,71E-05	0*	0,00E+00
Contribution to resource use, fossils	MJ	1,70E+03	9,21E+01	3,27E-01	0*	1,61E+03	6,51E-01	0,00E+00
Contribution to water use	m3 eq	6,83E+00	2,46E+00	0*	2,03E-03	4,35E+00	2,46E-02	0,00E+00

Inventory flows Indicators		SpaceLogic Central I/O UI-8/DO-FC-4-H-2 - SXWUI8D4H10002						
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	3,21E+02	3,21E+00	0*	0*	3,18E+02	0*	0,00E+00
Contribution to use of renewable primary energy resources used as raw material	MJ	4,56E-01	4,56E-01	0*	0*	0*	0*	0,00E+00
Contribution to total use of renewable primary energy resources	MJ	3,21E+02	3,66E+00	0*	0*	3,18E+02	0*	0,00E+00
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,70E+03	8,81E+01	3,27E-01	0*	1,61E+03	6,51E-01	0,00E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	4,04E+00	4,04E+00	0*	0*	0*	0*	0,00E+00
Contribution to total use of non-renewable primary energy resources	MJ	1,70E+03	9,21E+01	3,27E-01	0*	1,61E+03	6,51E-01	0,00E+00
Contribution to use of secondary material	kg	3,60E-06	3,60E-06	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	1,60E-01	5,72E-02	0*	4,72E-05	1,02E-01	5,72E-04	0,00E+00
Contribution to hazardous waste disposed	kg	2,97E+01	2,74E+01	0*	0*	2,31E+00	8,06E-02	0,00E+00
Contribution to non hazardous waste disposed	kg	1,31E+01	1,85E+00	0*	2,21E-02	1,11E+01	1,06E-01	0,00E+00
Contribution to radioactive waste disposed	kg	3,16E-03	7,13E-04	5,86E-07	0*	2,45E-03	5,27E-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	3,29E-05	3,29E-05	0*	0*	0*	0*	0,00E+00
Contribution to materials for energy recovery	kg	2,74E-08	2,74E-08	0*	0*	0*	0*	0,00E+00
Contribution to exported energy	MJ	3,49E-06	3,49E-06	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	0,00E+00
Contribution to biogenic carbon content of the associated packaging	kg of C	6,56E-03

* 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 Central I/O UI-8/DO-FC-4-H-2 - SXWUI8D4H10002							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	6,88E+01	0*	0*	0*	0*	0*	6,88E+01	0*
Contribution to climate change-fossil	kg CO2 eq	6,87E+01	0*	0*	0*	0*	0*	6,87E+01	0*
Contribution to climate change-biogenic	kg CO2 eq	1,08E-01	0*	0*	0*	0*	0*	1,08E-01	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	3,10E-07	0*	0*	0*	0*	0*	3,10E-07	0*
Contribution to acidification	mol H+ eq	3,47E-01	0*	0*	0*	0*	0*	3,47E-01	0*
Contribution to eutrophication, freshwater	kg (PO4)³⁻ eq	1,45E-04	0*	0*	0*	0*	0*	1,45E-04	0*
Contribution to eutrophication marine	kg N eq	4,23E-02	0*	0*	0*	0*	0*	4,23E-02	0*
Contribution to eutrophication, terrestrial	mol N eq	5,98E-01	0*	0*	0*	0*	0*	5,98E-01	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	1,36E-01	0*	0*	0*	0*	0*	1,36E-01	0*
Contribution to resource use, minerals and metals	kg Sb eq	1,71E-05	0*	0*	0*	0*	0*	1,71E-05	0*
Contribution to resource use, fossils	MJ	1,61E+03	0*	0*	0*	0*	0*	1,61E+03	0*
Contribution to water use	m3 eq	4,35E+00	0*	0*	0*	0*	0*	4,35E+00	0*

Inventory flows Indicators		SpaceLogic Central I/O UI-8/DO-FC-4-H-2 - SXWUI8D4H10002							
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	3,18E+02	0*	0*	0*	0*	0*	3,18E+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	3,18E+02	0*	0*	0*	0*	0*	3,18E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,61E+03	0*	0*	0*	0*	0*	1,61E+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	1,61E+03	0*	0*	0*	0*	0*	1,61E+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	m ³	1,02E-01	0*	0*	0*	0*	0*	1,02E-01	0*
Contribution to hazardous waste disposed	kg	2,31E+00	0*	0*	0*	0*	0*	2,31E+00	0*
Contribution to non hazardous waste disposed	kg	1,11E+01	0*	0*	0*	0*	0*	1,11E+01	0*
Contribution to radioactive waste disposed	kg	2,45E-03	0*	0*	0*	0*	0*	2,45E-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 v6.2.2, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology 0/0 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-01322-V01.01-EN	Drafting rules	PCR-4-ed4-EN-2021 09 06
		Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Verifier accreditation N°	VH08	Information and reference documents	www.pep-ecopassport.org
Date of issue	11-2024	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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