

Product Environmental Profile

SpaceLogic IHC INTERFACE, 8 INPUTS, 16 OUTPUTS

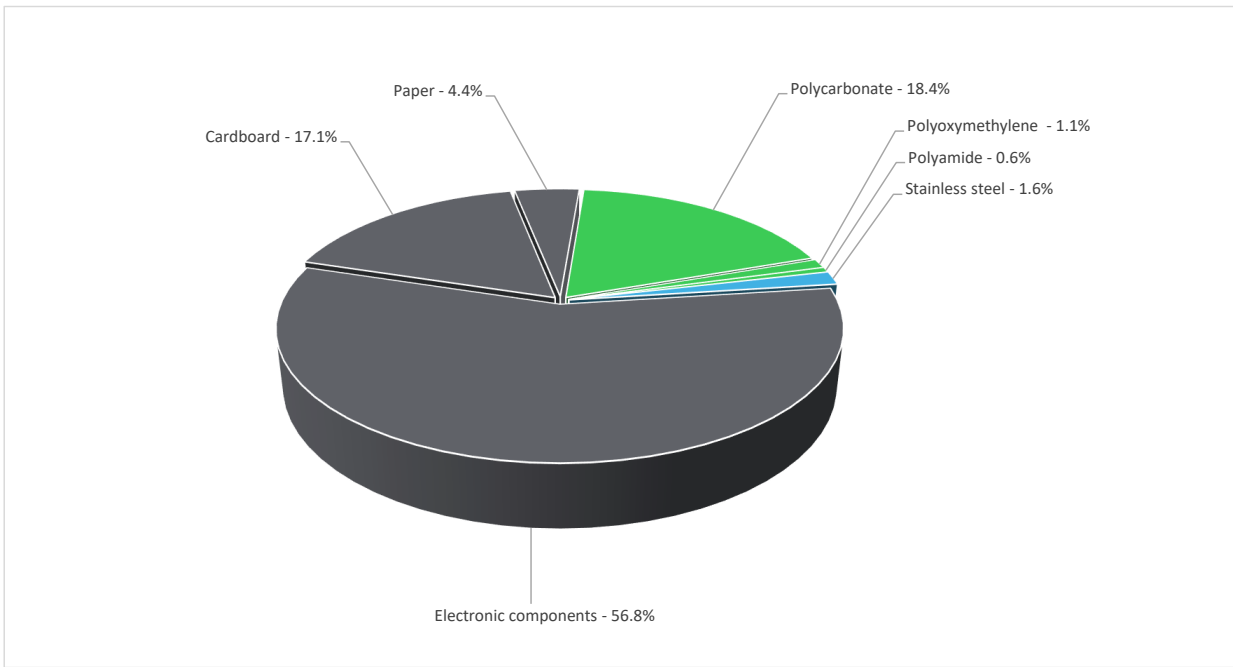


General information

Reference product	SpaceLogic IHC Interface, DIN RAIL, 24 VDC, 8 x IHC Inputs, 16 x IHC Outputs, R485 Modbus, Ethernet - LSS100500
Description of the product	SpaceLogic IHC Interface, act as an interface & controls multiple connected electrical & electronic devices.
Description of the range	Single product
Functional unit	The main function of the product is to communicate and control the action of all the connected devices in the IHC system through multiple inputs/outputs, RJ45, RS485, and a status indicator with the Wisier4K controller with IP20, Degree of protection against ingress of solid foreign objects and water with harmful effects in accordance with the standard IEC 60529 and IK05, Degree of protection against external mechanical impacts in accordance with the standard IEC 62262 for the reference service life of the product of 10 years with the following dimensions 87 x 68 x 58 mm.
Specifications are:	Rated Voltage (U) - 24VDC Rated Current (In) - 60mA Other Standards: IEC 62443-4-1 & IEC 62443-4-2 Security Level 2 rules.

Constituent materials

Reference product mass	242 g including the product and its packaging.
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Others	78.3%
Plastics	20.1%
Metals	1.6%

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:	4%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECYLAB 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 99% and Paper 1%.		
Use scenario	This product is in Active mode for all the time (100%) with the power use of 1.5W for a reference life time 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	
	Germany	Denmark	
Energy model used	[A1 - A3]	[A5]	[B6]
	Electricity Mix; Low voltage; 2020; Germany, DE Electricity Mix; Low voltage; 2020; France, FR Electricity Mix; Low voltage; 2020; Europe, EU-27	Electricity Mix; RER	Electricity Mix; Low voltage; 2020; Denmark, DK
			[C1 - C4]
			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		SpaceLogic IHC Interface, DIN RAIL, 24 VDC, 8 x IHC Inputs, 16 x IHC Outputs, R485 Modbus, Ethernet - LSS100500						
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	3.42E+01	3.97E+00	3.91E-02	7.88E-02	2.97E+01	4.39E-01	-1.76E-02
Contribution to climate change-fossil	kg CO2 eq	3.07E+01	4.02E+00	3.91E-02	1.40E-02	2.62E+01	4.32E-01	-1.76E-02
Contribution to climate change-biogenic	kg CO2 eq	3.53E+00	0*	0*	6.48E-02	3.50E+00	7.55E-03	-4.19E-05
Contribution to climate change-land use and land use change	kg CO2 eq	7.13E-05	7.11E-05	1.40E-07	0*	0	6.81E-08	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	8.73E-07	6.70E-07	9.83E-10	5.11E-10	1.99E-07	2.36E-09	-5.44E-09
Contribution to acidification	mol H+ eq	3.28E-01	2.66E-02	8.31E-05	8.19E-05	3.01E-01	3.80E-04	-9.55E-05
Contribution to eutrophication, freshwater	kg P eq	3.68E-05	3.09E-05	1.62E-07	1.86E-08	2.79E-06	2.94E-06	-5.40E-08
Contribution to eutrophication marine	kg N eq	2.97E-02	2.02E-03	1.35E-05	1.97E-05	2.76E-02	1.16E-04	-9.65E-06
Contribution to eutrophication, terrestrial	mol N eq	8.32E-01	2.46E-02	1.48E-04	2.63E-04	8.06E-01	1.23E-03	-1.08E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	8.45E-02	7.31E-03	4.85E-05	5.54E-05	7.68E-02	2.84E-04	-4.15E-05
Contribution to resource use, minerals and metals	kg Sb eq	1.99E-03	1.97E-03	0*	0*	1.70E-05	0*	-2.58E-06
Contribution to resource use, fossils	MJ	4.79E+02	7.06E+01	8.25E-01	2.62E-01	4.06E+02	1.42E+00	-2.45E-01
Contribution to water use	m3 eq	5.83E+00	3.04E+00	2.69E-03	8.28E-04	2.77E+00	1.03E-02	-7.89E-03

Inventory flows Indicators		SpaceLogic IHC Interface, DIN RAIL, 24 VDC, 8 x IHC Inputs, 16 x IHC Outputs, R485 Modbus, Ethernet - LSS100500						
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	7.63E+02	7.58E+00	0*	0*	7.55E+02	0*	-1.67E-03
Contribution to use of renewable primary energy resources used as raw material	MJ	1.02E+00	1.02E+00	0	0	0	0	0.00E+00
Contribution to total use of renewable primary energy resources	MJ	7.64E+02	8.61E+00	0*	0*	7.55E+02	0*	-1.67E-03
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.76E+02	6.74E+01	8.25E-01	2.62E-01	4.06E+02	1.42E+00	-2.45E-01
Contribution to use of non renewable primary energy resources used as raw material	MJ	3.19E+00	3.19E+00	0	0	0	0	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	4.79E+02	7.06E+01	8.25E-01	2.62E-01	4.06E+02	1.42E+00	-2.45E-01
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	1.37E-01	7.11E-02	6.26E-05	1.90E-05	6.57E-02	2.53E-04	-1.84E-04
Contribution to hazardous waste disposed	kg	2.99E+01	2.69E+01	0*	1.53E-02	2.86E+00	1.47E-01	-1.87E-01
Contribution to non hazardous waste disposed	kg	6.51E+00	1.37E+00	8.59E-03	1.89E-03	5.11E+00	1.56E-02	-6.20E-03
Contribution to radioactive waste disposed	kg	1.29E-03	5.10E-04	6.79E-06	8.02E-07	7.72E-04	5.03E-06	-2.96E-06
Contribution to components for reuse	kg	0.00E+00	0	0	0	0	0	0.00E+00
Contribution to materials for recycling	kg	1.58E-02	7.76E-03	0	0	0	7.99E-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	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	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg of C	1.16E-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 IHC Interface, DIN RAIL, 24 VDC, 8 x IHC Inputs, 16 x IHC Outputs, R485 Modbus, Ethernet - LSS100500							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	2.97E+01	0	0	0	0	0	2.97E+01	0
Contribution to climate change-fossil	kg CO2 eq	2.62E+01	0	0	0	0	0	2.62E+01	0
Contribution to climate change-biogenic	kg CO2 eq	3.50E+00	0	0	0	0	0	3.50E+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	1.99E-07	0	0	0	0	0	1.99E-07	0
Contribution to acidification	mol H+ eq	3.01E-01	0	0	0	0	0	3.01E-01	0
Contribution to eutrophication, freshwater	kg P eq	2.79E-06	0	0	0	0	0	2.79E-06	0
Contribution to eutrophication marine	kg N eq	2.76E-02	0	0	0	0	0	2.76E-02	0
Contribution to eutrophication, terrestrial	mol N eq	8.06E-01	0	0	0	0	0	8.06E-01	0
Contribution to photochemical ozone formation - human health	kg COVNM eq	7.68E-02	0	0	0	0	0	7.68E-02	0
Contribution to resource use, minerals and metals	kg Sb eq	1.70E-05	0	0	0	0	0	1.70E-05	0
Contribution to resource use, fossils	MJ	4.06E+02	0	0	0	0	0	4.06E+02	0
Contribution to water use	m3 eq	2.77E+00	0	0	0	0	0	2.77E+00	0

Inventory flows Indicators		SpaceLogic IHC Interface, DIN RAIL, 24 VDC, 8 x IHC Inputs, 16 x IHC Outputs, R485 Modbus, Ethernet - LSS100500							
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	7.55E+02	0	0	0	0	0	7.55E+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	7.55E+02	0	0	0	0	0	7.55E+02	0
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.06E+02	0	0	0	0	0	4.06E+02	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	4.06E+02	0	0	0	0	0	4.06E+02	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	6.57E-02	0	0	0	0	0	6.57E-02	0
Contribution to hazardous waste disposed	kg	2.86E+00	0	0	0	0	0	2.86E+00	0
Contribution to non hazardous waste disposed	kg	5.11E+00	0	0	0	0	0	5.11E+00	0
Contribution to radioactive waste disposed	kg	7.72E-04	0	0	0	0	0	7.72E-04	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 v6.3, 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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Verifier accreditation N°	VH50	Information and reference documents	www.pep-ecopassport.org
Date of issue	07-2025	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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