Product Environmental Profile

Surface mounted box - 2 gangs - pure white

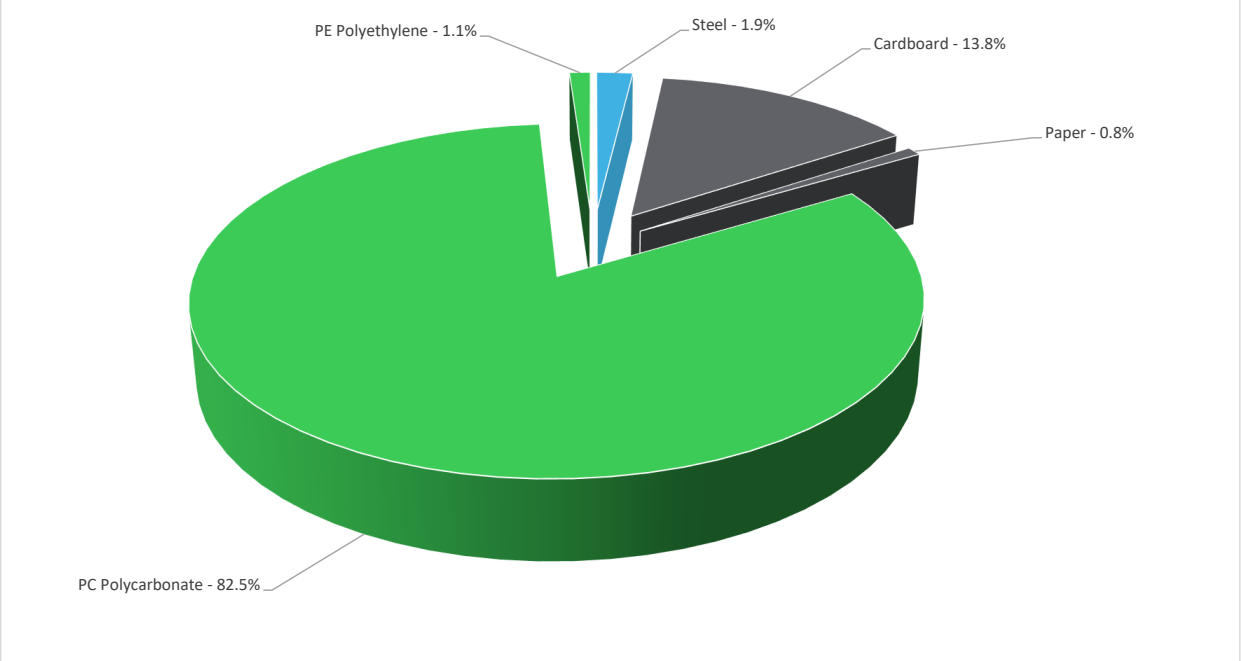
Representative of all variants of multi range surface mounted boxes

General information

Reference product	Surface mounted box - 2 gangs - pure white - ELG234214
Description of the product	The product 2 gangs surface mounted box is a product to protect people from direct contact. This product ensure a protection IP20 according to IEC 60259 standard.
Description of the range	The environmental impacts of this reference product are representative of the impacts of the other products of the range which are developed with a similar technology.all other multi range surface mounted boxes. It contains all surface mounted boxes, 1 or more gang.
Functional unit	Protect people from direct contact with live active parts and ensure the grouping of control, command and protection devices in a single enclosure having the following dimensions 80,5 x 151,5 x 47,5mm, with rated current 0A (In), while protecting them against the penetration of solid objects and liquids (IP20), according to the appropriate use scenario, and for the reference service life of the product of 20 years.
Specifications are:	H = 80.5 (mm) W = 151.5 (mm) D = 47.5 (mm) In = 0 (A) IP = IP20

Constituent materials

Reference product mass	121.75 g	including the product, its packaging, additional elements and accessories



Plastics	83.6%
Metals	1.9%
Others	14.6%

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:	**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	20 years			
Product category	Unequipped enclosures			
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 consumtion	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligable consumption			
Installation elements	No special components needed			
Use scenario	There is no use scenario to be considered			
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 représentaive of the actual type of technologies used to make the product.			
Geographical representativeness	**Final assembly site**	**Use phase**		**End-of-life**
	Germany	Europe		Europe
Energy model used	**[A1 - A3]**	**[A5]**	**[B6]**	**[C1 - C4]**
	Electricity Mix; Low voltage; 2020; Germany, DE	No energy used	No energy used	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		Surface mounted box - 2 gangs - pure white - ELG234214						
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	8.81E-01	5.71E-01	2.16E-02	2.06E-02	0*	2.68E-01	-5.71E-03
Contribution to climate change-fossil	kg CO2 eq	8.92E-01	5.83E-01	2.16E-02	1.97E-02	0*	2.68E-01	-2.60E-02
Contribution to climate change-biogenic	kg CO2 eq	-1.13E-02	-1.21E-02	0*	0*	0*	0*	2.03E-02
Contribution to climate change-land use and land use change	kg CO2 eq	1.31E-04	1.31E-04	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.46E-08	1.40E-08	3.30E-11	2.47E-10	0*	2.42E-10	-1.77E-09
Contribution to acidification	mol H+ eq	2.08E-03	1.68E-03	1.40E-04	5.67E-05	0*	1.97E-04	-1.43E-04
Contribution to eutrophication, freshwater	kg P eq	3.37E-06	2.91E-06	8.08E-09	4.38E-07	0*	1.54E-08	-2.91E-07
Contribution to eutrophication marine	kg N eq	6.08E-04	4.41E-04	6.55E-05	2.42E-05	0*	7.80E-05	-3.34E-05
Contribution to eutrophication, terrestrial	mol N eq	6.41E-03	4.61E-03	7.21E-04	1.70E-04	0*	9.08E-04	-2.92E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.88E-03	1.43E-03	1.85E-04	3.90E-05	0*	2.21E-04	-8.04E-05
Contribution to resource use, minerals and metals	kg Sb eq	3.19E-06	3.19E-06	8.48E-10	4.88E-10	0*	1.33E-09	-2.66E-06
Contribution to resource use, fossils	MJ	1.43E+01	1.30E+01	3.00E-01	1.92E-01	0*	8.29E-01	-4.10E-01
Contribution to water use	m3 eq	1.72E-01	1.46E-01	8.18E-05	1.60E-03	0*	2.40E-02	-7.98E-03

Inventory flows Indicators		Surface mounted box - 2 gangs - pure white - ELG234214						
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	7.69E-01	7.42E-01	4.01E-04	2.54E-02	0*	1.96E-03	5.80E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	2.19E-01	2.19E-01	0*	0*	0*	0*	-2.58E-01
Contribution to total use of renewable primary energy resources	MJ	9.88E-01	9.60E-01	4.01E-04	2.54E-02	0*	1.96E-03	-2.00E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.06E+01	9.28E+00	3.00E-01	1.92E-01	0*	8.29E-01	-4.10E-01
Contribution to use of non renewable primary energy resources used as raw material	MJ	3.69E+00	3.69E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	1.43E+01	1.30E+01	3.00E-01	1.92E-01	0*	8.29E-01	-4.10E-01
Contribution to use of secondary material	kg	1.31E-02	1.31E-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	m^3	4.00E-03	3.40E-03	1.90E-06	3.74E-05	0*	5.58E-04	-1.86E-04
Contribution to hazardous waste disposed	kg	2.50E-01	2.49E-01	0*	4.70E-04	0*	0*	-2.11E-01
Contribution to non hazardous waste disposed	kg	8.15E-01	6.99E-01	7.56E-04	8.92E-03	0*	1.06E-01	-1.76E-02
Contribution to radioactive waste disposed	kg	3.85E-04	3.80E-04	5.38E-07	1.05E-06	0*	3.96E-06	-7.99E-06
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	2.78E-03	8.21E-05	0*	5.22E-04	0*	2.18E-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	7.88E-04	2.92E-06	0*	7.64E-04	0*	2.15E-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	5.00E-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		Surface mounted box - 2 gangs - pure white - ELG234214							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to climate change-fossil	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to climate change-biogenic	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	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	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to acidification	mol H+ eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to eutrophication, freshwater	kg P eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to eutrophication marine	kg N eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to eutrophication, terrestrial	mol N eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to resource use, minerals and metals	kg Sb eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to resource use, fossils	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to water use	m3 eq	0*	0*	0*	0*	0*	0*	0*	0*

Inventory flows Indicators		Surface mounted box - 2 gangs - pure white - ELG234214							
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	0*	0*	0*	0*	0*	0*	0*	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	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	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	0*	0*	0*	0*	0*	0*	0*	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	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to hazardous waste disposed	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to non hazardous waste disposed	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to radioactive waste disposed	kg	0*	0*	0*	0*	0*	0*	0*	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 v6.2.4, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply can be provided upon request

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-01393-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°	VH48	*Information and reference documents*	www.pep-ecopassport.org
Date of issue	04-2025	*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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Published by Schneider Electric

SCHN-01393-V01.01-EN

04-2025