Product Environmental Profile

ZENcelo SWITCH WITH COVER FRAME

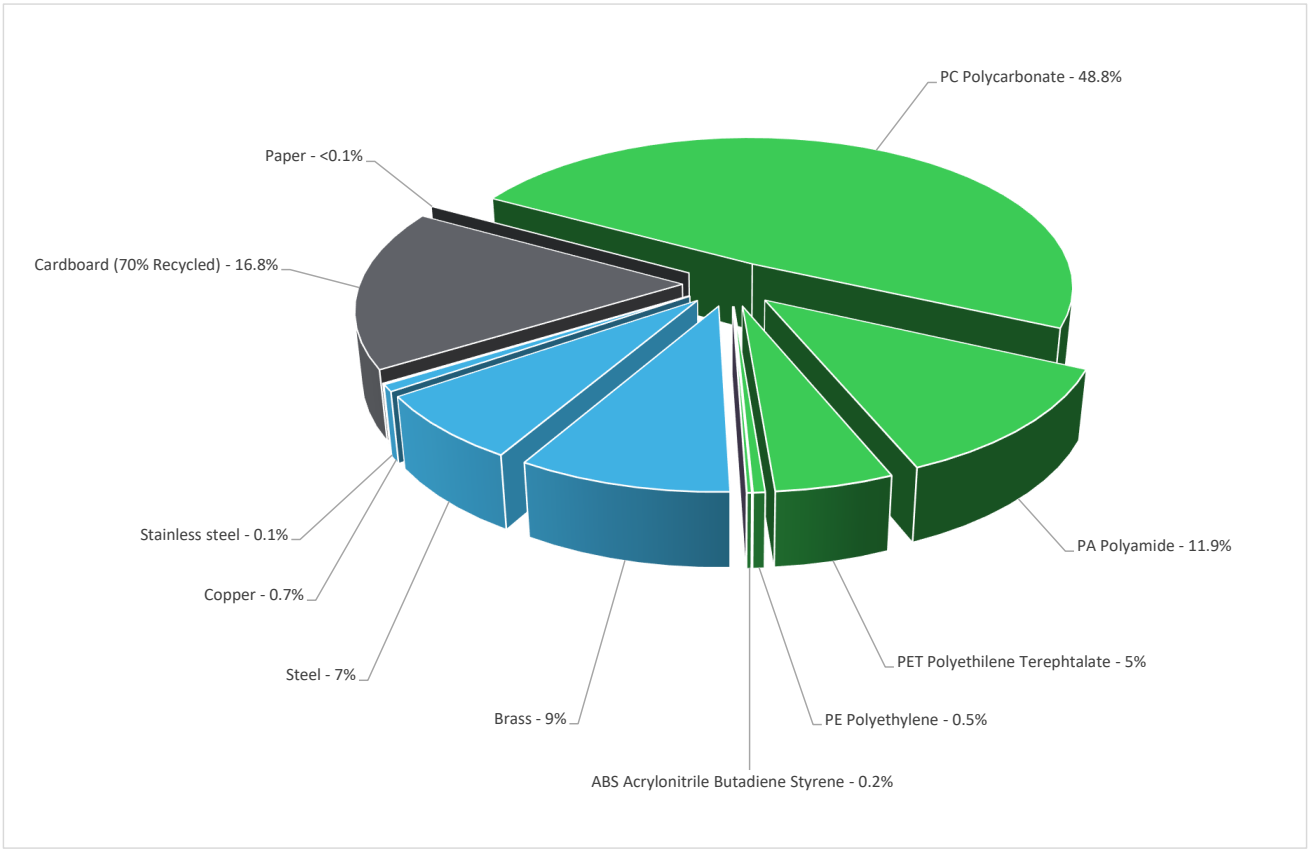


General information

Reference product	6A 1W Full-Flat Sw Module w_Indi-White with 1 Module Surround and Gridplate-White - IN8401 + IN8401C
Description of the product	The main function of the ZENcelo switch is to give a solution for the control of electricity.
Functional unit	Establish, support, and interrupt the rated current [I] 6A and rated voltage [U] 250V AC for a wall-mounted installation according to the appropriate use scenario and for the reference service life of the product of 20 years with an IP20 degree of protection against the ingress of solid foreign objects and water with harmful effects in accordance with the standard IEC 60529. The product is in compliance with the IS 3854 standard.

Constituent materials

Reference product mass	84 g	including the product, its packaging and additional elements and accessories



Plastics	66.4%
Metals	16.8%
Others	16.8%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website
https://www.se.com/ww/en/work/support/green-premium/

Additional environmental information

End Of Life	Recyclability potential:	**21%**	Recyclability rate has been calculated based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).

Environmental impacts

Reference service life time	20 years
Product category	Switches
Installation elements	The product does not require a special installation procedure and requires little to no energy to install.
Use scenario	Load rate: 10% of In Use time rate: 30% of RLT
Technological representativeness	The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are Similar and representative of the actual type of technologies used to make the product in production.
Geographical representativeness	India

Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Production mix; Low voltage; IN	Electricity Mix; Production mix; Low voltage; IN	Electricity Mix; Production mix; Low voltage; IN	Electricity Mix; Production mix; Low voltage; IN

Detailed results, including all 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.schneider-electric.com/contact

Mandatory Indicators		ZENcelo SWITCH WITH COVER FRAME - IN8401 + IN8401C						
Impact indicators	Unit	Total	Manufacturing [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Loads and Benefits [D]
Contribution to climate change	kg CO2 eq	9.13E-01	4.36E-01	1.09E-02	2.72E-02	2.28E-01	2.10E-01	-7.64E-02
Contribution to climate change-fossil	kg CO2 eq	9.04E-01	4.29E-01	1.09E-02	2.60E-02	2.28E-01	2.10E-01	-7.47E-02
Contribution to climate change-biogenic	kg CO2 eq	8.60E-03	7.28E-03	0*	1.19E-03	2.21E-05	1.14E-04	-1.62E-03
Contribution to climate change-land use and land use change	kg CO2 eq	2.77E-08	2.00E-10	0*	2.56E-08	0*	1.90E-09	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	2.98E-08	2.59E-08	1.66E-11	1.91E-09	1.31E-09	6.54E-10	-9.16E-09
Contribution to acidification	mol H+ eq	4.60E-03	2.48E-03	6.99E-05	1.09E-04	1.74E-03	1.98E-04	-3.83E-04
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	8.79E-06	4.40E-06	4.07E-09	3.09E-07	2.01E-08	4.06E-06	-6.97E-07
Contribution to eutrophication marine	kg N eq	5.69E-04	2.83E-04	3.28E-05	2.92E-05	1.85E-04	3.96E-05	-6.42E-05
Contribution to eutrophication, terrestrial	mol N eq	6.19E-03	2.99E-03	3.60E-04	2.26E-04	2.13E-03	4.83E-04	-6.14E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.98E-03	1.07E-03	9.10E-05	6.08E-05	6.17E-04	1.42E-04	-2.06E-04
Contribution to resource use, minerals and metals	kg Sb eq	6.77E-05	6.75E-05	0*	0*	0*	1.16E-07	-8.82E-06
Contribution to resource use, fossils	MJ	1.47E+01	7.71E+00	1.52E-01	2.75E-01	3.59E+00	2.94E+00	-1.34E+00
Contribution to water use	m3 eq	5.63E-02	0*	4.12E-05	1.79E-02	1.01E-02	3.25E-02	-4.59E-02

Inventory flows Indicators		ZENcelo SWITCH WITH COVER FRAME - IN8401 + IN8401C						
Inventory flows	Unit	Total	Manufact. [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Loads and Benefits [D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3.73E-01	1.44E-01	2.02E-04	2.49E-02	2.00E-01	3.65E-03	1.45E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	8.54E-02	8.54E-02	0*	0*	0*	0*	-2.58E-01
Contribution to total use of renewable primary energy resources	MJ	4.58E-01	2.30E-01	2.02E-04	2.49E-02	2.00E-01	3.65E-03	-1.12E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.30E+01	6.05E+00	1.52E-01	2.75E-01	3.59E+00	2.94E+00	-1.12E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	1.66E+00	1.66E+00	0*	0*	0*	0*	-2.18E-01

Contribution to total use of non-renewable primary energy resources	MJ	1.47E+01	7.71E+00	1.52E-01	2.75E-01	3.59E+00	2.94E+00	-1.34E+00
Contribution to use of secondary material	kg	1.10E-02	1.10E-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	1.31E-03	0*	9.60E-07	4.17E-04	2.35E-04	7.56E-04	-1.07E-03
Contribution to hazardous waste disposed	kg	1.60E+00	1.53E+00	0*	3.12E-04	6.99E-03	6.68E-02	-6.89E-01
Contribution to non hazardous waste disposed	kg	7.13E-01	5.31E-01	3.81E-04	8.57E-02	3.96E-02	5.62E-02	-3.95E-01
Contribution to radioactive waste disposed	kg	2.58E-04	2.43E-04	2.72E-07	1.17E-05	1.42E-06	2.25E-06	-2.93E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	4.44E-02	1.14E-02	0*	1.89E-02	0*	1.40E-02	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
Contribution to biogenic carbon content of the product	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	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*

Life cycle assessment performed with EIME version v5.9.4, database version 2022-01 in compliance with ISO14044.

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.schneider-electric.com/contact

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 :	ENVPEP2403003_V1-EN	*Drafting rules*	PEP-PCR-ed4-2021 09 06
Validity period	5 years	*Supplemented by*	PSR-0005-ed3-EN-2023 06 06
Date of issue	03/2024	*Information and reference documents*	www.pep-ecopassport.org

Independent verification of the declaration and data, in compliance with ISO 14021 : 2016

Internal X External

The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)

PEP are compliant with XP C08-100-1 :2016 or EN 50693:2019

The elements of the present PEP cannot be compared with elements from another program.

Document in compliance with ISO 14021 : 2016 « Environmental labels and declarations. Type II environmental declarations »

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