

Product Environmental Profile

ODACE 2 WAY SWITCH WITH OUTER PLATE





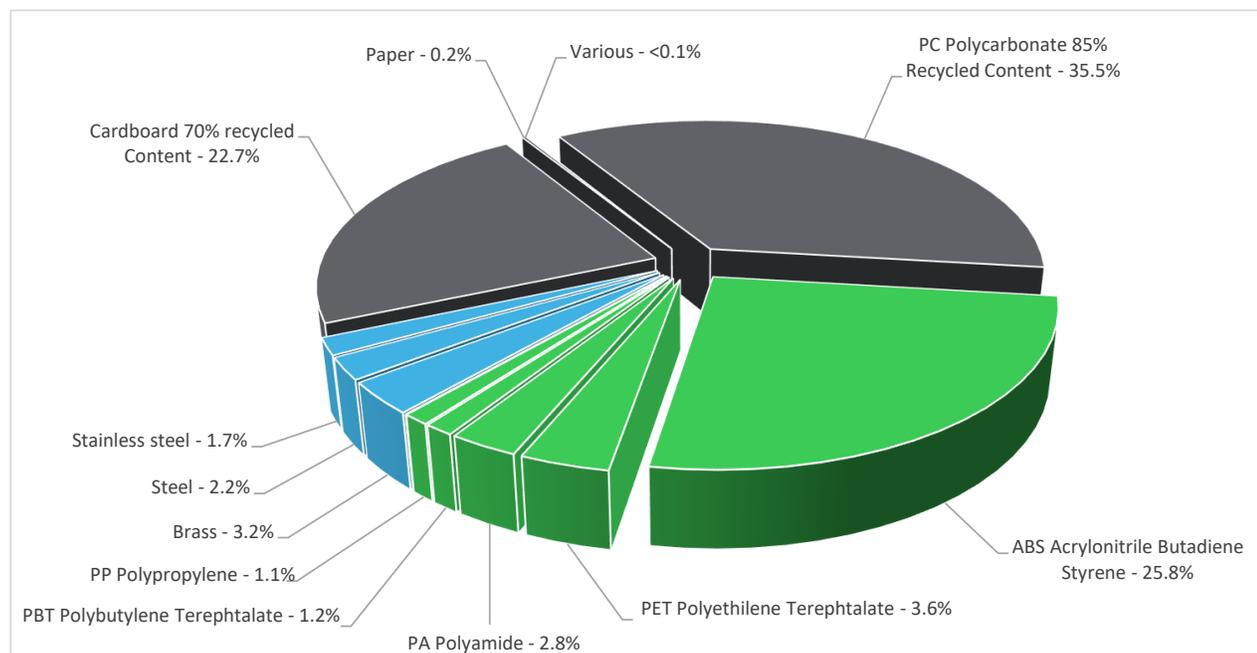
General information

Representative product	ODACE 2 WAY SWITCH WITH OUTER PLATE - S520204 + S520702
Description of the product	The main purpose of the ODACE 2 WAY SWITCH product is to give a solution for the control of Electricity.
Description of the range	The indicators values of this Odace 2-Way switch can be extrapolated for other Odace switches, for all finishing types, with or without associated accessories. The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.
Functional unit	Establish, support and interrupt for 20 years rated currents in normal conditions of circuit characterized by the current 10A, including any conditions specified for overload in operation characterized by the current 10A, for the operating voltage 250V for a specified time with IP21D protection in accordance with the standard IEC 60529 and IK=IK04 in accordance with the standard IEC 62262



Constituent materials

Reference product mass 66 g including the product, its packaging



Plastics	70.0%
Metals	7.1%
Others	22.9%



Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers – PBDE), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website

<http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page>



Additional environmental information

The ODACE 2 WAY SWITCH WITH OUTER PLATE presents the following relevant environmental aspects

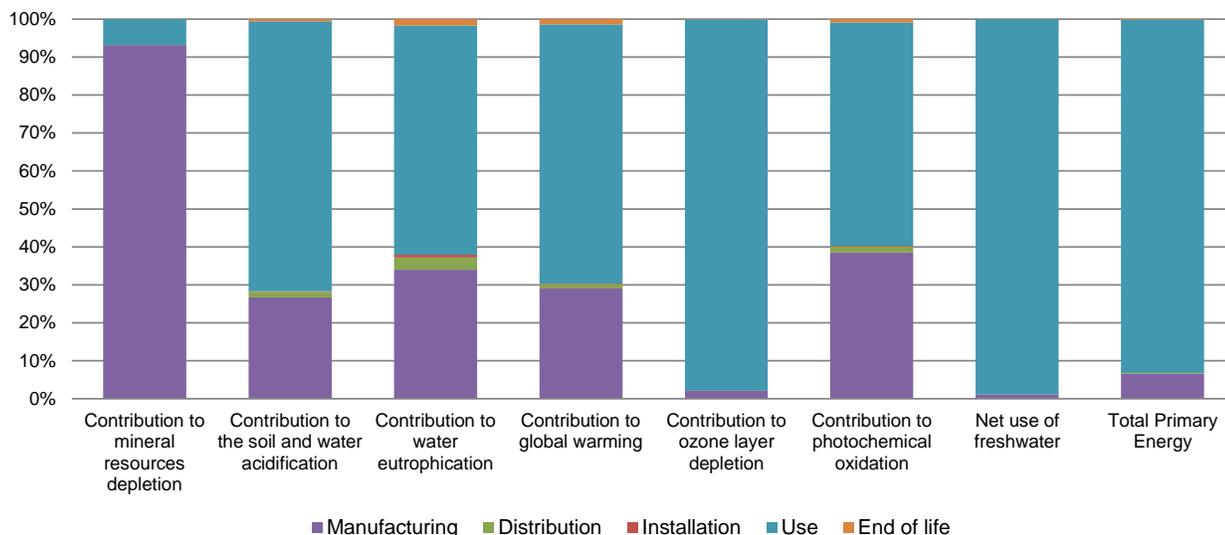
Design	ODACE Switches are made of at least 45% plastic recycled content.
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 18.6 g, consisting of Cardboard (82.6%), PET film (13.1%), Polypropylene (3.8%) & Paper (0.5%) Packaging recycled materials is 45% of total packaging mass. Product distribution optimised by setting up local distribution centres
Installation	This product does not require special installation operation. The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal).
Use	The product does not require special maintenance operations.
End of life	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process. Recyclability potential: 77% Based on Reecyclab tool of ecosystem (for Polycarbonate) and "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).



Environmental impacts

Reference life time	20 years			
Product category	Switches			
Installation elements	This product does not require any special components during installation			
Use scenario	The product is in active mode 30% of the time with a power use of 0.0875W and in off mode 70% of the time with a power use of 0 W, for 20 years			
Geographical representativeness	France			
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.			
Energy model used	Manufacturing	Installation	Use	End of life
	Manufacturing Plant Location: Puente la Reina, Spain	Electricity grid mix; AC; consumption mix, at consumer; 230V; FR	Electricity grid mix; AC; consumption mix, at consumer; 230V; FR	Electricity grid mix; AC; consumption mix, at consumer; 230V; FR

Compulsory indicators		ODACE 2 WAY SWITCH WITH OUTER PLATE - S520204 + S520702					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	3.56E-06	3.32E-06	0*	0*	2.44E-07	0*
Contribution to the soil and water acidification	kg SO ₂ eq	2.62E-03	6.98E-04	3.89E-05	4.71E-06	1.86E-03	1.50E-05
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	2.81E-04	9.54E-05	8.96E-06	2.06E-06	1.70E-04	4.65E-06
Contribution to global warming	kg CO ₂ eq	7.33E-01	2.13E-01	8.52E-03	1.15E-03	5.00E-01	1.02E-02
Contribution to ozone layer depletion	kg CFC11 eq	7.31E-07	1.55E-08	0*	0*	7.15E-07	3.08E-10
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	1.83E-04	7.05E-05	2.77E-06	3.55E-07	1.08E-04	1.55E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m ³	1.20E+01	1.37E-01	0*	0*	1.18E+01	0*
Total Primary Energy	MJ	4.91E+01	3.21E+00	1.20E-01	1.45E-02	4.56E+01	7.16E-02



Optional indicators		ODACE 2 WAY SWITCH WITH OUTER PLATE - S520204 + S520702					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	8.22E+00	2.28E+00	1.20E-01	1.41E-02	5.75E+00	5.74E-02
Contribution to air pollution	m³	4.37E+01	2.61E+01	3.62E-01	6.71E-02	1.67E+01	5.24E-01
Contribution to water pollution	m³	4.49E+01	1.74E+01	1.40E+00	1.65E-01	2.53E+01	6.85E-01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	4.26E-02	4.26E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	3.48E+00	1.68E-01	0*	0*	3.31E+00	0*
Total use of non-renewable primary energy resources	MJ	4.56E+01	3.05E+00	1.20E-01	1.44E-02	4.23E+01	7.15E-02
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3.43E+00	1.20E-01	0*	0*	3.31E+00	0*
Use of renewable primary energy resources used as raw material	MJ	4.76E-02	4.76E-02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.47E+01	2.21E+00	1.20E-01	1.44E-02	4.23E+01	7.15E-02
Use of non renewable primary energy resources used as raw material	MJ	8.40E-01	8.40E-01	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	3.10E-01	2.49E-01	0*	0*	9.43E-04	6.04E-02
Non hazardous waste disposed	kg	1.37E+00	3.48E-01	3.03E-04	2.61E-03	1.02E+00	2.21E-04
Radioactive waste disposed	kg	1.53E-02	1.50E-04	0*	0*	1.51E-02	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	6.07E-02	6.52E-03	0*	1.63E-02	0*	3.78E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.87E-03	0*	0*	0*	0*	1.87E-03
Exported Energy	MJ	4.89E-05	4.60E-06	0*	4.43E-05	0*	0*

* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version 5.9.3, database version 2020-12 in compliance with ISO14044.

The Manufacturing phase is impacting on Indicators Abiotic depletion (elements, ultimate reserves) (ADPe for EN15804). The Manufacturing phase & Use phase are impacting equally on Indicator of Acidification potential of soil and water (total average for Europe) (A for PEP), Eutrophication (fate not incl.) (EP for EN15804), Photochemical oxidation (high NOx) (POCP for EN15804) & Global warming (GWP100) (GWP for EN15804). The Use phase is impacting on the indicators Net use of freshwater, Ozone layer depletion ODP steady state (ODP for EN15804) & Total Prime Energy.

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.

<i>Registration number :</i>	SCHN-00852-V01.01-EN	<i>Drafting rules</i>	PCR-ed3-EN-2015 04 02
<i>Verifier accreditation N°</i>	VH39	<i>Supplemented by</i>	PSR-0005-ed2-EN-2016 03 29
<i>Date of issue</i>	10/2022	<i>Information and reference documents</i>	www.pep-ecopassport.org
		<i>Validity period</i>	5 years
<i>Independent verification of the declaration and data, in compliance with ISO 14025 : 2010</i>			
Internal		External <input checked="" type="checkbox"/>	
<i>The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)</i>			
<i>PEP are compliant with XP C08-100-1 :2016</i>			
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »</i>			
			

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