

Product Environmental Profile

Exxact Switch





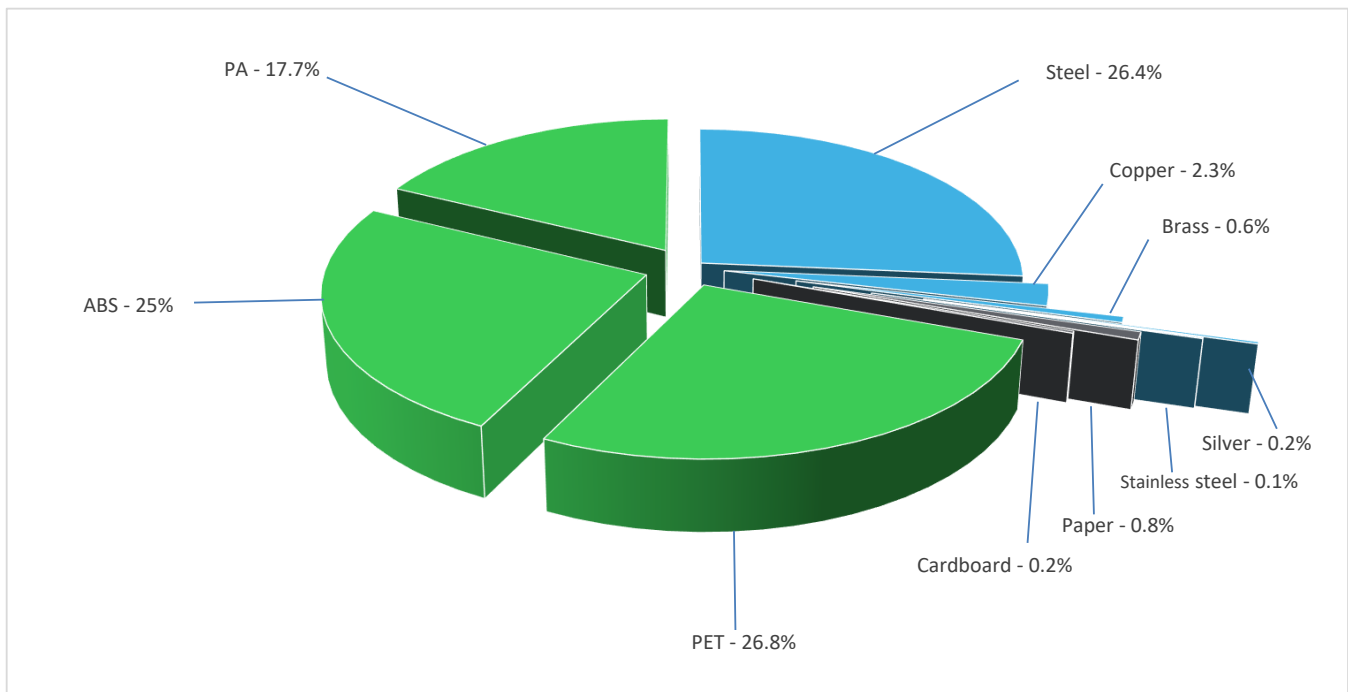
General information

Representative product	Exxact Switch - WDE008222
Description of the product	The main function of the Exxact switch product is to offer a standard to high-end range for flush or surface mounting. Depending of version it can be combined with various kinds of design frames in different colours and materials.
Functional unit	To establish, support and interrupt for 20 years rated currents in normal conditions of circuit characterized by the current 16A, for the operating voltage 250V for a specified time with EN 60669-1 standards.



Constituent materials

Reference product mass	132 g including the product, its packaging and additional elements and accessories
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	Plastics	69.5%
	Metals	29.6%
	Others	1.0%

Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) 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) and Directive 2015/863 (July 22, 2019) RoHS 3 adds four additional restricted substances (phthalates) to the list of six, Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP) and 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

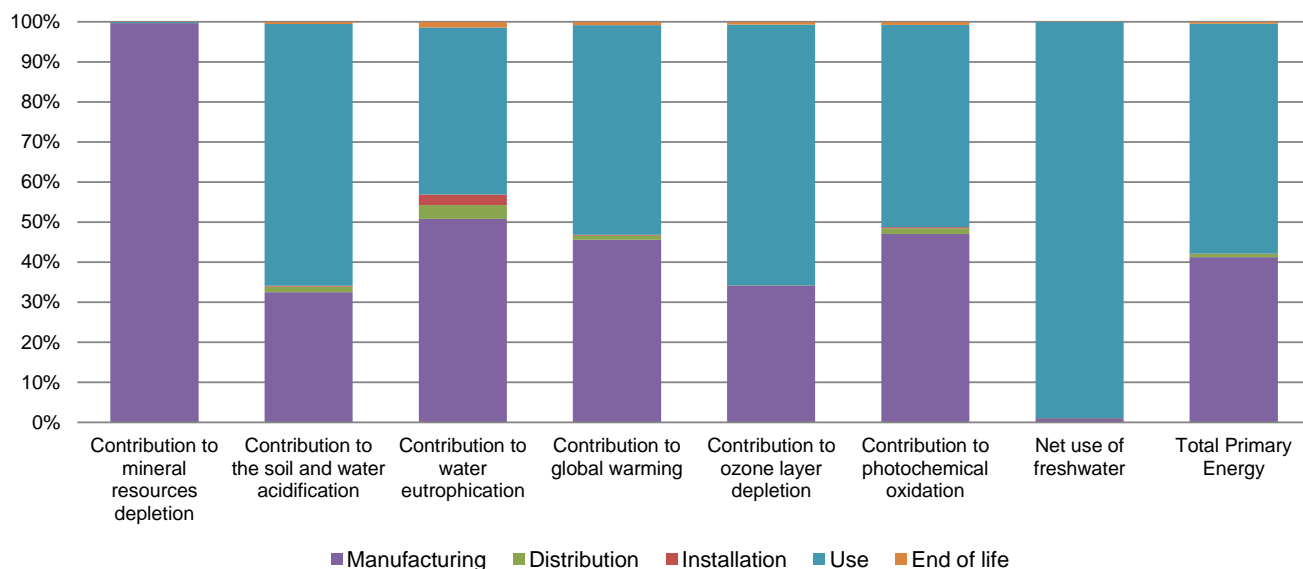
The Exxact Switch presents the following relevant environmental aspects

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 36.3 g, consisting of PET(97%), Paper (3%) Product distribution optimised by setting up local distribution centres
Installation	The product does not require special installation procedure and requires little to no energy to install. 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: 63% Based on "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	End of life of the packaging, materials for installation			
Use scenario	Load rate: 50% of In Use time rate: 30% of RLT			
Geographical representativeness	Europe			
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 : Ringsted, Denmark	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		Exxact Switch - WDE008222					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2.22E-05	2.21E-05	0*	0*	7.44E-08	0*
Contribution to the soil and water acidification	kg SO ₂ eq	5.47E-03	1.78E-03	7.78E-05	1.39E-05	3.57E-03	2.81E-05
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	5.17E-04	2.63E-04	1.79E-05	1.36E-05	2.16E-04	7.52E-06
Contribution to global warming	kg CO ₂ eq	1.63E+00	7.45E-01	1.70E-02	3.56E-03	8.56E-01	1.33E-02
Contribution to ozone layer depletion	kg CFC11 eq	8.57E-08	2.92E-08	3.45E-11	7.75E-11	5.58E-08	6.20E-10
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	3.89E-04	1.83E-04	5.55E-06	1.07E-06	1.96E-04	2.96E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	3.14E+00	3.32E-02	0*	0*	3.10E+00	0*
Total Primary Energy	MJ	2.98E+01	1.23E+01	2.41E-01	4.06E-02	1.71E+01	1.38E-01



Optional indicators		Exxact Switch - WDE008222					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.84E+01	8.34E+00	2.39E-01	3.71E-02	9.72E+00	1.11E-01
Contribution to air pollution	m ³	1.13E+02	7.42E+01	7.24E-01	3.78E-01	3.69E+01	9.92E-01
Contribution to water pollution	m ³	1.11E+02	7.17E+01	2.80E+00	4.31E-01	3.53E+01	1.16E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2.52E-03	2.52E-03	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2.43E+00	2.57E-01	3.21E-04	8.30E-04	2.17E+00	0*
Total use of non-renewable primary energy resources	MJ	2.74E+01	1.20E+01	2.40E-01	3.98E-02	1.49E+01	1.38E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.41E+00	2.35E-01	3.21E-04	8.30E-04	2.17E+00	0*
Use of renewable primary energy resources used as raw material	MJ	2.26E-02	2.26E-02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.44E+01	9.02E+00	2.40E-01	3.98E-02	1.49E+01	1.38E-01
Use of non renewable primary energy resources used as raw material	MJ	3.01E+00	3.01E+00	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	1.12E+00	9.91E-01	0*	0*	4.46E-04	1.29E-01
Non hazardous waste disposed	kg	3.80E+00	5.76E-01	6.05E-04	2.79E-02	3.19E+00	4.24E-04
Radioactive waste disposed	kg	2.47E-03	3.31E-04	4.31E-07	9.68E-07	2.13E-03	6.63E-07
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	7.86E-02	7.38E-03	0*	1.14E-02	0*	5.98E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.48E-03	0*	0*	0*	0*	1.48E-03
Exported Energy	MJ	4.11E-06	3.86E-07	0*	3.72E-06	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.9.1, database version 2016-11 in compliance with ISO14044.

The Manufacturing phase is impacting on Indicator of Abiotic depletion (elements, ultimate ultimate reserves) (ADPe) and the Use phase impacting on the indicators of Acidification potential (A), Ozone layer depletion (ODP) and Net use of freshwater (NUFW). The Manufacturing phase & Use phase are impacting equally on the rest of the Indicators.

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	ENVPEP111010EN_V1	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	01/2021	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Validity period	5 years	Information and reference documents	www.pep-ecopassport.org
Independent verification of the declaration and data			
Internal	X	External	
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 - Self-declared environmental claims (Type II environmental labelling) »			

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