

Product Environmental Profile

1G 20AX DP SWITCH WITH LED INDICATOR





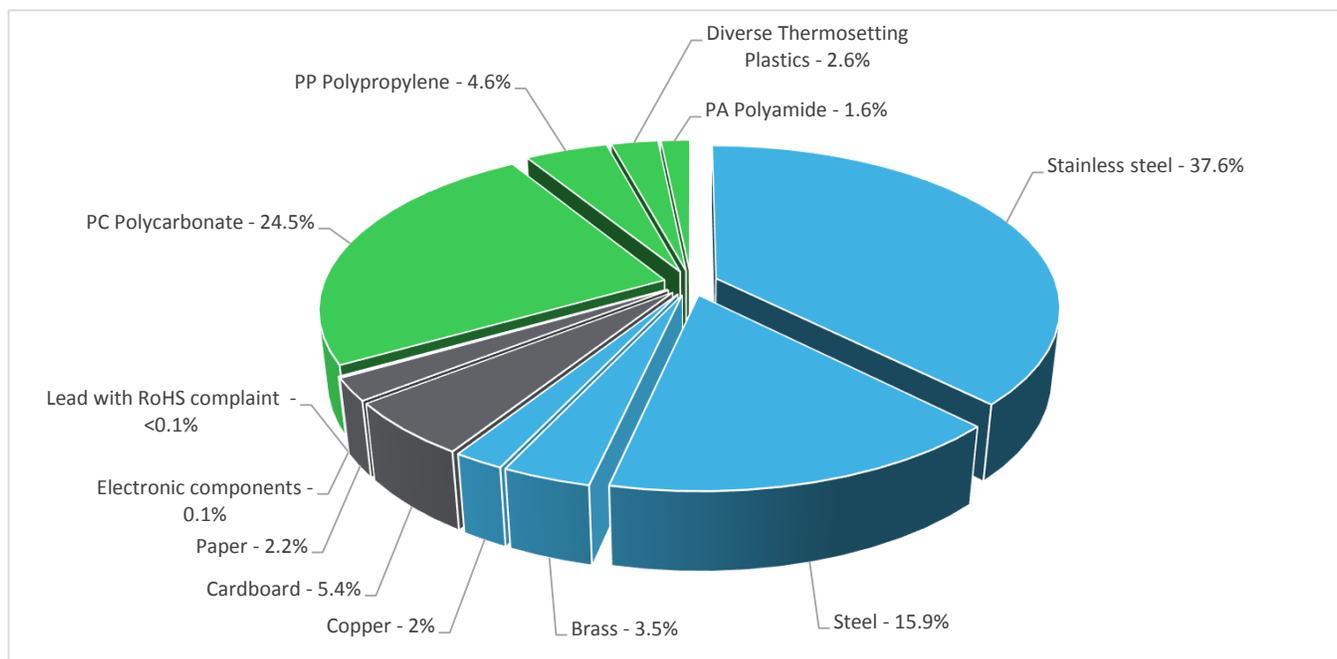
General information

Representative product	1G 20AX DP SWITCH WITH LED INDICATOR - GGBL2011
Description of the product	The main purpose of the Lisse 1 gang DP switch with an indicator lamp, rated at 20AX 250V AC product is to give a solution for the control of Electricity and Energy consumption Indicator light on switch rocker.
Functional unit	Establish, support and interrupt for 20 years rated currents in normal conditions of circuit characterized by the current $I_{th} = 20A$, including any conditions specified for overload in operation characterized by the current $I_e = 20A$, for the operating voltage $U_e = 250V$ for a specified time with IP20 protection in accordance BS EN 60669-1 standard.



Constituent materials

Reference product mass	150.54 g including the product, its packaging and additional elements and accessories
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Plastics	33.3%
Metals	59.0%
Others	7.7%



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) as mentioned in the Directive

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this 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

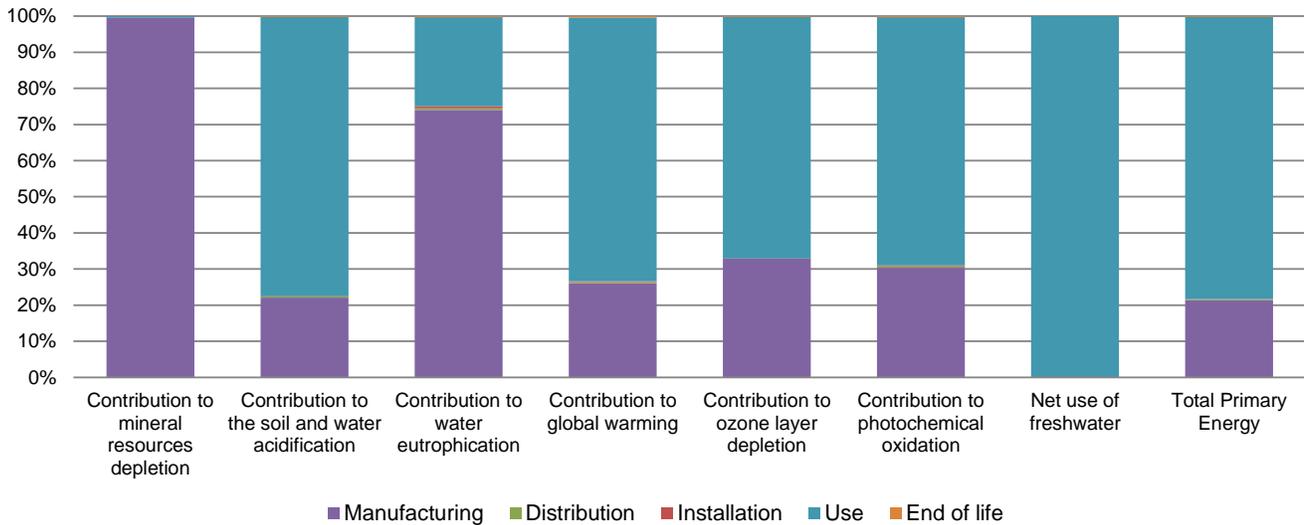
The 1G 20AX DP SWITCH WITH LED INDICATOR presents the following relevant environmental aspects

Manufacturing	Manufactured at a production site complying with the regulations
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 11.4 g, consisting of cardboard (71.2%), pvc seal tape (0.02%), paper (28.78%) 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 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 This product contains electronic card (0.2g) that should be separated from the stream of waste so as to optimize end-of-life treatment. The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page 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	No special components needed			
Use scenario	Load rate: 50% of In Use time rate: 30% of RLT			
Geographical representativeness	Europe			
Technological representativeness	The main purpose of the Lisse 1 gang DP switch with an indicator lamp, rated at 20AX 250V AC product is to give a solution for the control of Electricity and Energy consumption Indicator light on switch rocker.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: T&J Electric Shenzhen Limited, China	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		1G 20AX DP SWITCH WITH LED INDICATOR - GGBL2011					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	9.18E-05	9.14E-05	0*	0*	3.57E-07	0*
Contribution to the soil and water acidification	kg SO ₂ eq	2.22E-02	4.89E-03	8.87E-05	0*	1.71E-02	4.15E-05
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	4.19E-03	3.10E-03	2.04E-05	2.40E-05	1.03E-03	1.11E-05
Contribution to global warming	kg CO ₂ eq	5.62E+00	1.46E+00	1.94E-02	1.41E-02	4.11E+00	1.98E-02
Contribution to ozone layer depletion	kg CFC11 eq	4.00E-07	1.32E-07	0*	0*	2.68E-07	9.15E-10
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	1.37E-03	4.16E-04	6.33E-06	3.32E-06	9.41E-04	4.37E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m ³	1.49E+01	7.94E-03	0*	0*	1.49E+01	0*
Total Primary Energy	MJ	1.05E+02	2.24E+01	2.75E-01	0*	8.20E+01	2.04E-01



Optional indicators		1G 20AX DP SWITCH WITH LED INDICATOR - GGBL2011					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	6.77E+01	2.06E+01	2.73E-01	0*	4.66E+01	1.86E-01
Contribution to air pollution	m³	3.82E+02	2.03E+02	8.26E-01	1.16E-01	1.77E+02	1.46E+00
Contribution to water pollution	m³	3.98E+02	2.23E+02	3.19E+00	6.20E-01	1.69E+02	1.71E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	5.00E-03	5.00E-03	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.09E+01	4.80E-01	0*	0*	1.04E+01	0*
Total use of non-renewable primary energy resources	MJ	9.40E+01	2.20E+01	2.74E-01	0*	7.16E+01	2.03E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.07E+01	3.13E-01	0*	0*	1.04E+01	0*
Use of renewable primary energy resources used as raw material	MJ	1.67E-01	1.67E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	9.22E+01	2.01E+01	2.74E-01	0*	7.16E+01	2.03E-01
Use of non renewable primary energy resources used as raw material	MJ	1.85E+00	1.85E+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	6.91E+00	6.71E+00	0*	0*	2.14E-03	1.91E-01
Non hazardous waste disposed	kg	1.59E+01	5.92E-01	0*	1.18E-02	1.53E+01	0*
Radioactive waste disposed	kg	1.06E-02	3.62E-04	0*	0*	1.02E-02	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.03E-01	1.45E-02	0*	0*	0*	8.81E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	2.56E-03	3.25E-04	0*	0*	0*	2.23E-03
Exported Energy	MJ	1.88E-03	0*	0*	1.88E-03	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.6.0.1, database version 2016-11 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory 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	ENVPEP1801001V1-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	02/2018	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Validity period	5 years	Information and reference documents	www.pep-ecopassport.org
<i>Independent verification of the declaration and data</i>			
Internal	X	External	
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »</i>			

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