Product Environmental Profile

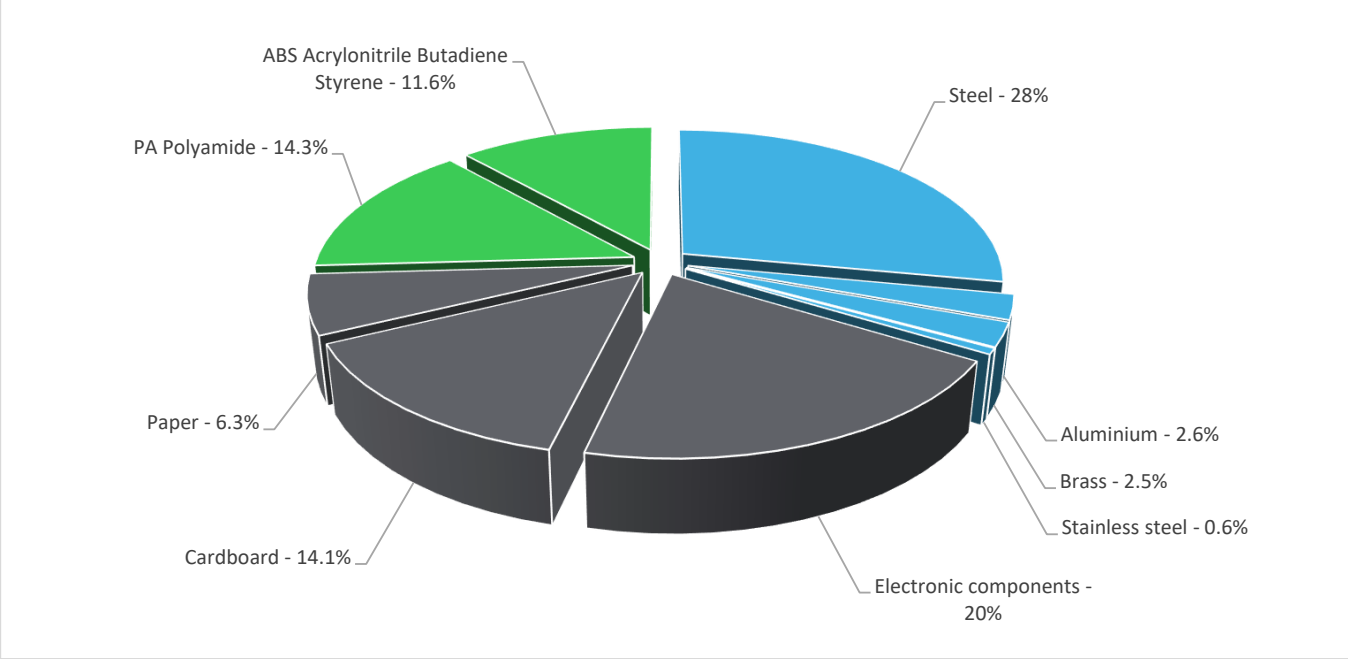
EXXACT DIMMERS

General information

Representative product	EXXACT DIMMERS - WDE002311
Description of the product	The main function of Exxact dimmer rated at 10A, 230V product range is to switch on and off via push on knob and control lighting loads from 40W to 315W for 20 years.
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 230V for a specified time with IP20 & IP44 (with additional sealing kit) protection in accordance with the standard IEC 60529.

Constituent materials

Reference product mass	125 g	including the product, its packaging.



	Plastics	25.9%
	Metals	33.7%
	Others	40.4%

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

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

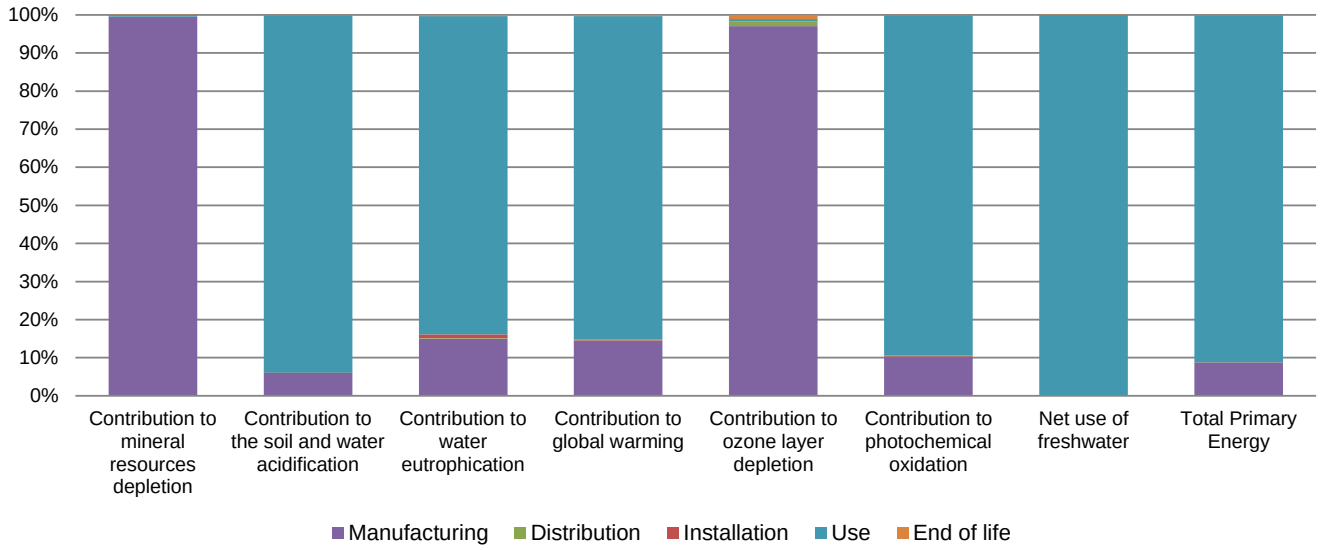
The EXXACT DIMMERS presents the following relevent environmental aspects	
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 24.5 g, consisting of cardboard (69.25%), paper (30.75%) 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 (39.367g) that should be separated from the stream of waste so as to optimize end-of-life treatment. Recyclability potential: **54%** 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	Sweden, Norway, Finland
Technological representativeness	The main function of Exxact dimmer rated at 10A, 230V product range is to switch on and off via push on knob and control lighting loads from 40W to 315W for 20 years.

Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Manufacturing plant: LEXEL FABRIKA, SIA Latvia	Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV; FI	Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV; FI	Electricity grid mix 1kV-60kV; AC; consumption mix, at consumer; 1kV - 60kV;

Compulsory indicators	**EXXACT DIMMERS - WDE002311**						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	5.62E-04	5.59E-04	0*	0*	2.45E-06	0*
Contribution to the soil and water acidification	kg SO_2 eq	5.16E-02	3.13E-03	1.85E-05	0*	4.84E-02	3.90E-05
Contribution to water eutrophication	kg PO_4^{3-} eq	4.88E-03	7.32E-04	4.57E-06	5.07E-05	4.08E-03	1.62E-05
Contribution to global warming	kg CO_2 eq	1.38E+01	2.00E+00	5.31E-03	3.01E-02	1.18E+01	4.58E-02
Contribution to ozone layer depletion	kg CFC11 eq	1.61E-07	1.56E-07	2.01E-09	8.09E-11	9.57E-10	1.70E-09
Contribution to photochemical oxidation	kg C_2H_4 eq	3.24E-03	3.35E-04	1.01E-06	7.09E-06	2.90E-03	3.54E-06
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	8.37E+01	2.27E-02	0*	0*	8.37E+01	0*
Total Primary Energy	MJ	3.65E+02	3.18E+01	6.98E-02	0*	3.33E+02	1.76E-01



Optional indicators		EXXACT DIMMERS - WDE002311					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.48E+02	2.11E+01	6.94E-02	0*	1.27E+02	1.43E-01
Contribution to air pollution	m³	7.24E+02	2.25E+02	2.12E-01	2.59E-01	4.98E+02	1.26E+00
Contribution to water pollution	m³	5.37E+02	2.40E+02	8.23E-01	1.30E+00	2.93E+02	2.26E+00
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.47E-02	1.47E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	8.14E+01	1.36E+00	0*	0*	8.01E+01	0*
Total use of non-renewable primary energy resources	MJ	2.83E+02	3.05E+01	6.97E-02	0*	2.52E+02	1.76E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	8.10E+01	8.91E-01	0*	0*	8.01E+01	0*
Use of renewable primary energy resources used as raw material	MJ	4.66E-01	4.66E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.82E+02	2.92E+01	6.97E-02	0*	2.52E+02	1.76E-01
Use of non renewable primary energy resources used as raw material	MJ	1.31E+00	1.31E+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	1.68E+00	1.51E+00	0*	0*	9.95E-03	1.64E-01
Non hazardous waste disposed	kg	3.26E+01	4.77E-01	0*	2.54E-02	3.21E+01	0*
Radioactive waste disposed	kg	4.72E-02	2.42E-04	0*	0*	4.69E-02	0*
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	6.17E-02	9.62E-03	0*	0*	0*	5.21E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.14E-02	0*	0*	0*	0*	1.14E-02
Exported Energy	MJ	4.33E-03	7.29E-06	0*	4.32E-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 v5.8.1, 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.

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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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