Product Environmental Profile

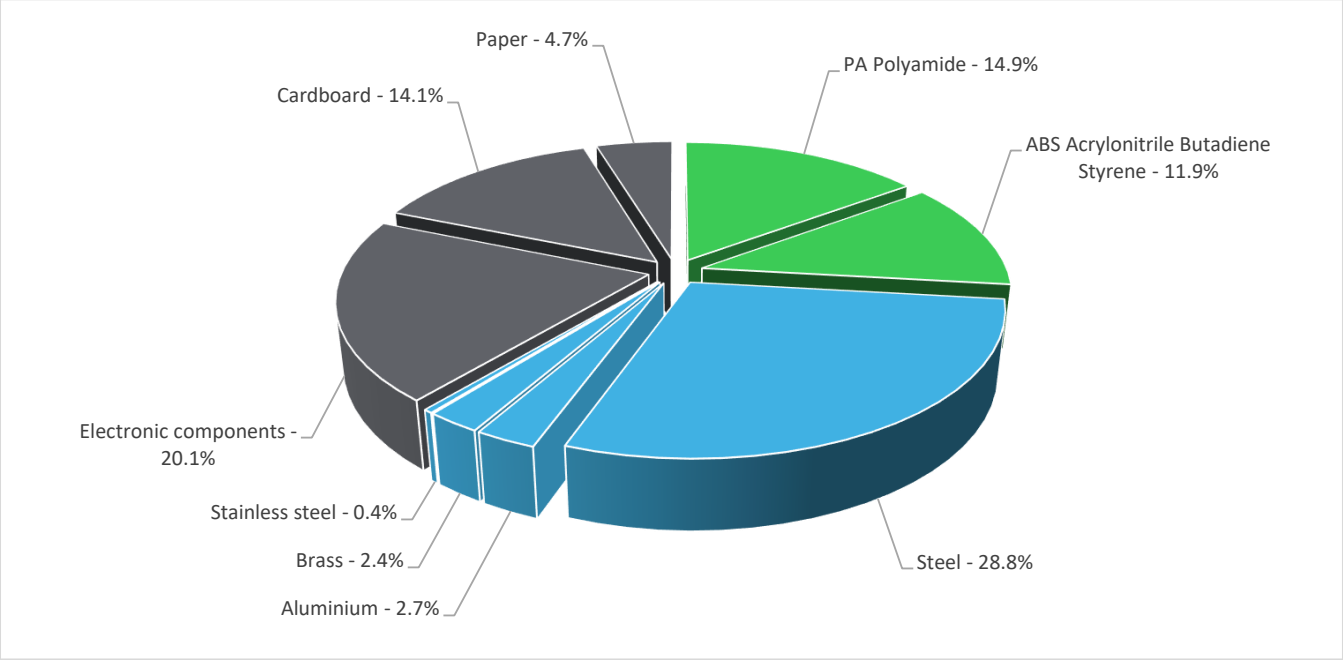
EXXACT LED ROTARY DIMMER

General information

Representative product	EXXACT LED ROTARY DIMMER - WDE002306
Description of the product	The main purpose of the Exxact rotary dimmer product is to dim ohmic and capacitive loads. Dimmer.
Functional unit	Control ohmic and capacitive loads from 0W to 370W over 20 years in an installation, as per IEC60669-2-1 standards with IP21 protection in accordance with the standard IEC 60529 .

Constituent materials

Reference product mass	118 g	including the product, its packaging.



	Plastics	26.8%
	Metals	34.3%
	Others	38.9%

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

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

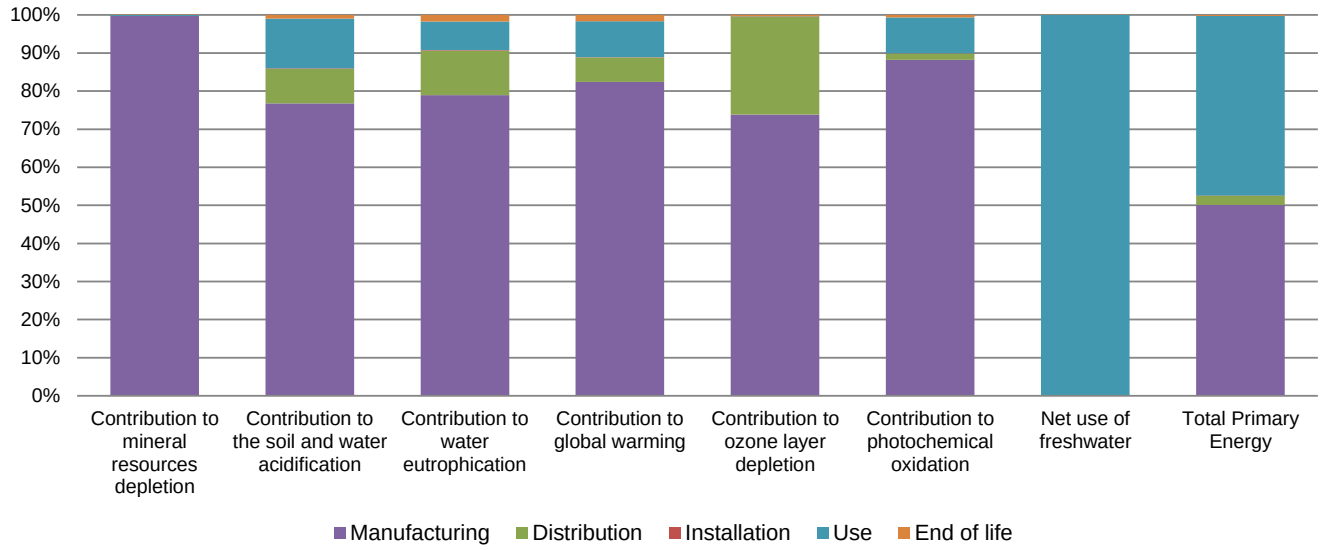
Additional environmental information

The EXXACT LED ROTARY DIMMER 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 17 g, consisting of cardboard (97.05%), paper (2.95%) 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 (23.5g) 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: **50%** 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	The product is in active mode 30% of the time with a power use of 0.1W and in OFF mode 70% of the time with a power use of 0.0W, for 20 years			
Geographical representativeness	Norway & Sweden			
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: Riga, Latvia	Electricity grid mix; AC; consumption mix, at consumer; 230V; NO	Electricity grid mix; AC; consumption mix, at consumer; 230V; NO	Electricity grid mix; AC; consumption mix, at consumer; 230V; NO

Compulsory indicators	EXXACT LED ROTARY DIMMER - WDE002306						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2.70E-04	2.69E-04	0*	0*	8.17E-07	0*
Contribution to the soil and water acidification	kg SO_2 eq	3.77E-03	2.90E-03	3.43E-04	3.83E-06	4.93E-04	3.73E-05
Contribution to water eutrophication	kg PO_4^{3-} eq	8.02E-04	6.33E-04	9.34E-05	9.32E-07	6.02E-05	1.41E-05
Contribution to global warming	kg CO_2 eq	2.22E+00	1.83E+00	1.42E-01	9.20E-04	2.09E-01	3.74E-02
Contribution to ozone layer depletion	kg CFC11 eq	3.89E-07	2.87E-07	1.00E-07	0*	2.75E-10	1.42E-09
Contribution to photochemical oxidation	kg C_2H_4 eq	5.03E-04	4.44E-04	8.38E-06	2.87E-07	4.71E-05	3.51E-06
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	3.64E+01	2.57E-02	0*	0*	3.64E+01	0*
Total Primary Energy	MJ	6.95E+01	3.48E+01	1.74E+00	1.20E-02	3.28E+01	1.71E-01



Optional indicators		EXXACT LED ROTARY DIMMER - WDE002306					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.96E+01	1.62E+01	1.74E+00	1.19E-02	1.51E+00	1.39E-01
Contribution to air pollution	m³	2.37E+02	2.17E+02	4.90E+00	3.67E-02	1.35E+01	1.23E+00
Contribution to water pollution	m³	2.48E+02	2.17E+02	2.08E+01	1.40E-01	7.88E+00	2.01E+00
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	3.00E-02	3.00E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2.07E+01	6.45E-01	0*	0*	2.00E+01	0*
Total use of non-renewable primary energy resources	MJ	4.88E+01	3.41E+01	1.74E+00	1.20E-02	1.27E+01	1.71E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.05E+01	5.03E-01	0*	0*	2.00E+01	0*
Use of renewable primary energy resources used as raw material	MJ	1.42E-01	1.42E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.75E+01	3.29E+01	1.74E+00	1.20E-02	1.27E+01	1.71E-01
Use of non renewable primary energy resources used as raw material	MJ	1.29E+00	1.29E+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	1.07E+00	9.08E-01	1.19E-04	0*	3.01E-03	1.62E-01
Non hazardous waste disposed	kg	1.20E+00	6.11E-01	1.46E-04	1.25E-04	5.90E-01	4.95E-04
Radioactive waste disposed	kg	6.46E-03	1.80E-03	2.85E-05	0*	4.63E-03	9.68E-07
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	8.15E-02	9.32E-03	0*	1.69E-02	0*	5.53E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	8.69E-03	0*	0*	0*	0*	8.69E-03
Exported Energy	MJ	5.52E-05	6.54E-06	0*	4.87E-05	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 the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators) exept one indicator NUFW is mostly in use phase.

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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Verifier accreditation N°	VH39	*Supplemented by*	PSR-0005-ed2-EN-2016 03 29
Date of issue	05/2021	*Information and reference documents*	www.pep-ecopassport.org
		Validity period	5 years

Independent verification of the declaration and data, in compliance with ISO 14025 : 2010

Internal External X

The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)

PEP are compliant with XP C08-100-1 :2016

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

Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »

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