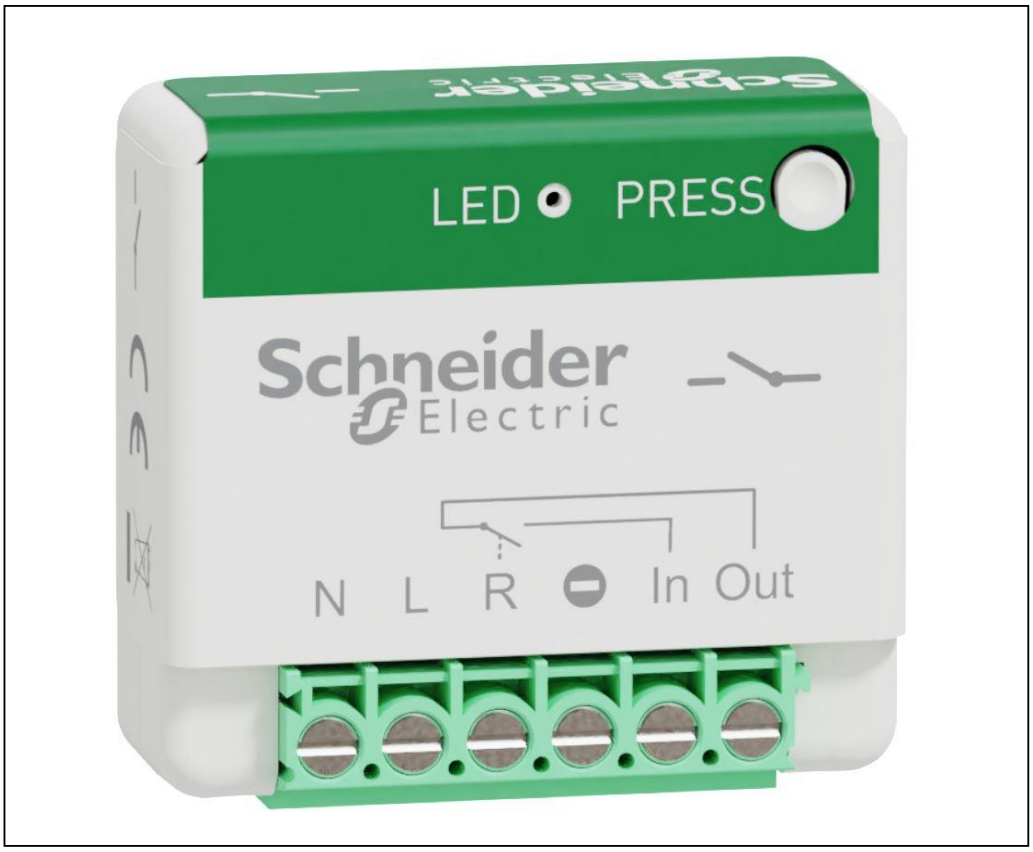
Product Environmental Profile

GENERIC ACTUATOR - TIMER 10 A

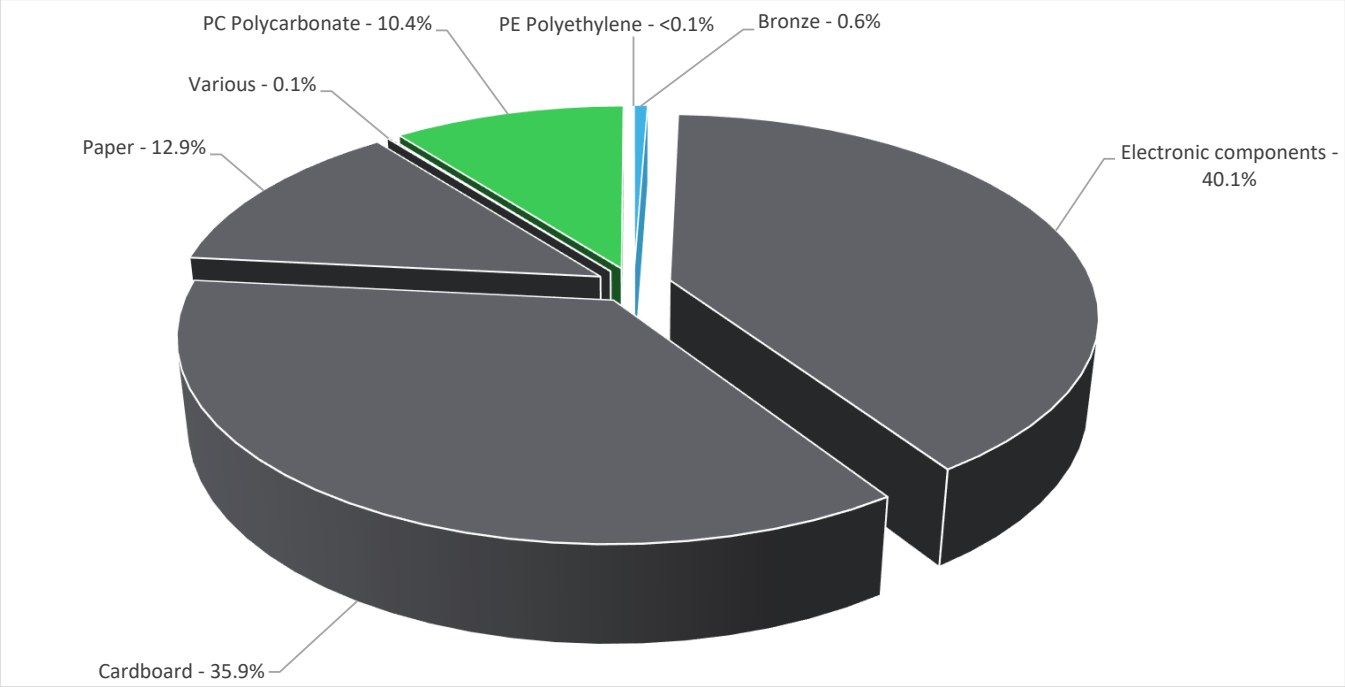


General information

Representative product	GENERIC ACTUATOR - TIMER 10 A - S520192
Description of the product	The generic module is a load outlet which has integrated an electronic switch and is a connected device. Generic module combines the function of communicating with a WLBL (Wireless Battery-less) control switch through BLE Protocol a and acting on the light load.
Functional unit	During 10 years of life time, the Electronic SW, by a load consuming of 10A under a voltage of 250V installed direct on a domestic network, communicates through BLE protocol with WLBL switches, capturing its signal of ON-OFF and acts on light load. Moreover, the genric module is designed to protect the user from direct contact with live parts with a protection class IP20 in accordance with the standard IEC 60529 & IK04 in accordance with the standard IEC 62262 with the following standards IEC 60669-2-1:2002+A1:2008+A2:2015, IEC 60669-1:2017, EN 60699-2-1:2004+A1:2009+A12:2010, EN60669-1:2018.

Constituent materials

Reference product mass	**67 g**	including the product, its packaging and additional elements and accessories



Plastics	10.4%
Metals	0.6%
Others	89.0%

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

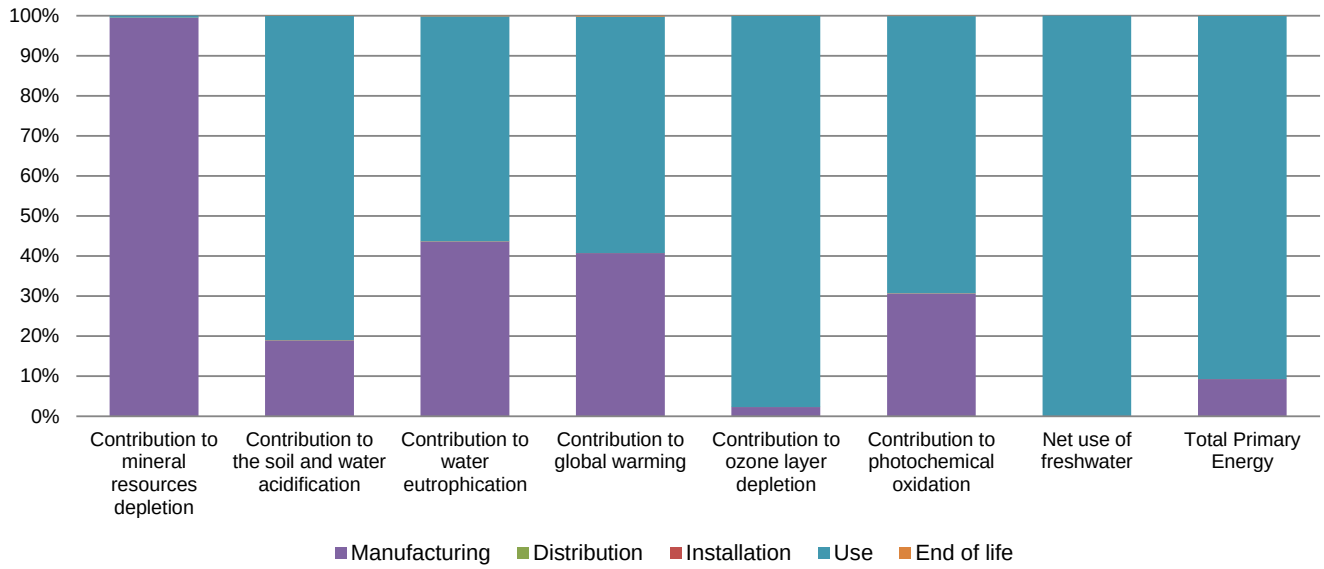
Additional environmental information

The GENERIC ACTUATOR - TIMER 10 A 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 24.2 g, consisting of Cardboard (99.8%), Plastic (0.1%) and Paper (0.1%) Product distribution optimised by setting up local distribution centres
Installation	The product does not require special installation procedure and it is connected to domestic electric network (please, refer to device´s User Manual for further information). 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 This product contains Electronic PCB Assembly (27g) 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: **12%** 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	10 years			
Product category	Other equipments - Active product			
Installation elements	No special components needed			
Use scenario	Product consumes power of 1.6W in active mode 30% of the time and 1.1W in standby mode 70% of time.			
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: Flex (Romania)	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	GENERIC ACTUATOR - TIMER 10 A - S520192						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.19E-03	1.18E-03	0*	0*	5.81E-06	0*
Contribution to the soil and water acidification	kg SO_2 eq	5.47E-02	1.03E-02	1.80E-05	5.47E-06	4.43E-02	2.48E-05
Contribution to water eutrophication	kg PO_4^{3-} eq	7.19E-03	3.14E-03	4.13E-06	1.34E-06	4.04E-03	1.32E-05
Contribution to global warming	kg CO_2 eq	2.02E+01	8.21E+00	4.00E-03	0*	1.19E+01	4.29E-02
Contribution to ozone layer depletion	kg CFC11 eq	1.74E-05	3.97E-07	0*	0*	1.70E-05	0*
Contribution to photochemical oxidation	kg C_2H_4 eq	3.70E-03	1.14E-03	1.28E-06	4.09E-07	2.56E-03	1.95E-06
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	2.82E+02	3.82E-02	0*	0*	2.82E+02	0*
Total Primary Energy	MJ	1.20E+03	1.11E+02	0*	0*	1.09E+03	0*



Optional indicators	GENERIC ACTUATOR - TIMER 10 A - S520192						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2.36E+02	9.90E+01	5.62E-02	0*	1.37E+02	8.48E-02
Contribution to air pollution	m³	1.22E+03	8.19E+02	1.64E-01	0*	3.97E+02	7.44E-01
Contribution to water pollution	m³	1.19E+03	5.84E+02	6.58E-01	1.99E-01	6.03E+02	1.76E+00
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2.31E-02	2.31E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	8.38E+01	4.99E+00	0*	0*	7.88E+01	0*
Total use of non-renewable primary energy resources	MJ	1.11E+03	1.06E+02	0*	0*	1.01E+03	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	8.35E+01	4.78E+00	0*	0*	7.88E+01	0*
Use of renewable primary energy resources used as raw material	MJ	2.19E-01	2.19E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.11E+03	1.06E+02	0*	0*	1.01E+03	0*
Use of non renewable primary energy resources used as raw material	MJ	4.22E-01	4.22E-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	1.19E+01	1.18E+01	0*	0*	2.25E-02	1.08E-01
Non hazardous waste disposed	kg	2.66E+01	2.22E+00	0*	0*	2.44E+01	0*
Radioactive waste disposed	kg	3.60E-01	7.53E-04	0*	0*	3.60E-01	0*
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3.24E-02	3.23E-03	0*	2.41E-02	0*	5.03E-03
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.20E-02	0*	0*	0*	0*	1.20E-02
Exported Energy	MJ	7.65E-05	7.20E-06	0*	6.94E-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 impacting on Indicator of Abiotic depletion (elements, ultimate reserves) (ADPe for EN15804). The Manufacturing phase & Use phase are impacting equally on Indicators of Eutrophication (fate not incl.) (EP for EN15804), Global warming (GWP100) (GWP for EN15804) & Photochemical oxidation (high NOx) (POCP for EN15804). And the Use phase is impacting on the rest of the Indicators of Acidification potential of soil and water (total average for Europe) (A for PEP), Ozone layer depletion ODP steady state (ODP for EN15804), Net use of freshwater (NUFW) & Total Primary Energy (TPE).

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 :	SCHN-00688-V01.01-EN	*Drafting rules*	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH39	*Supplemented by*	PSR-0005-ed2-EN-2016 03 29
Date of issue	11/2021	*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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