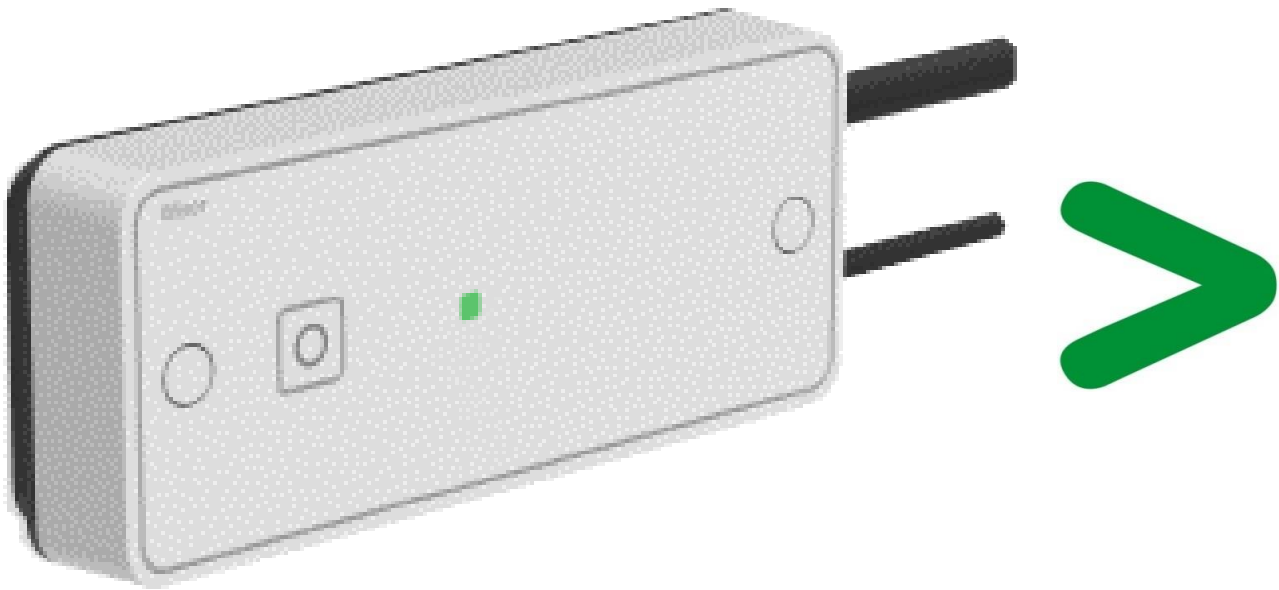


# Product Environmental Profile

## WISER 16AMP RELAY





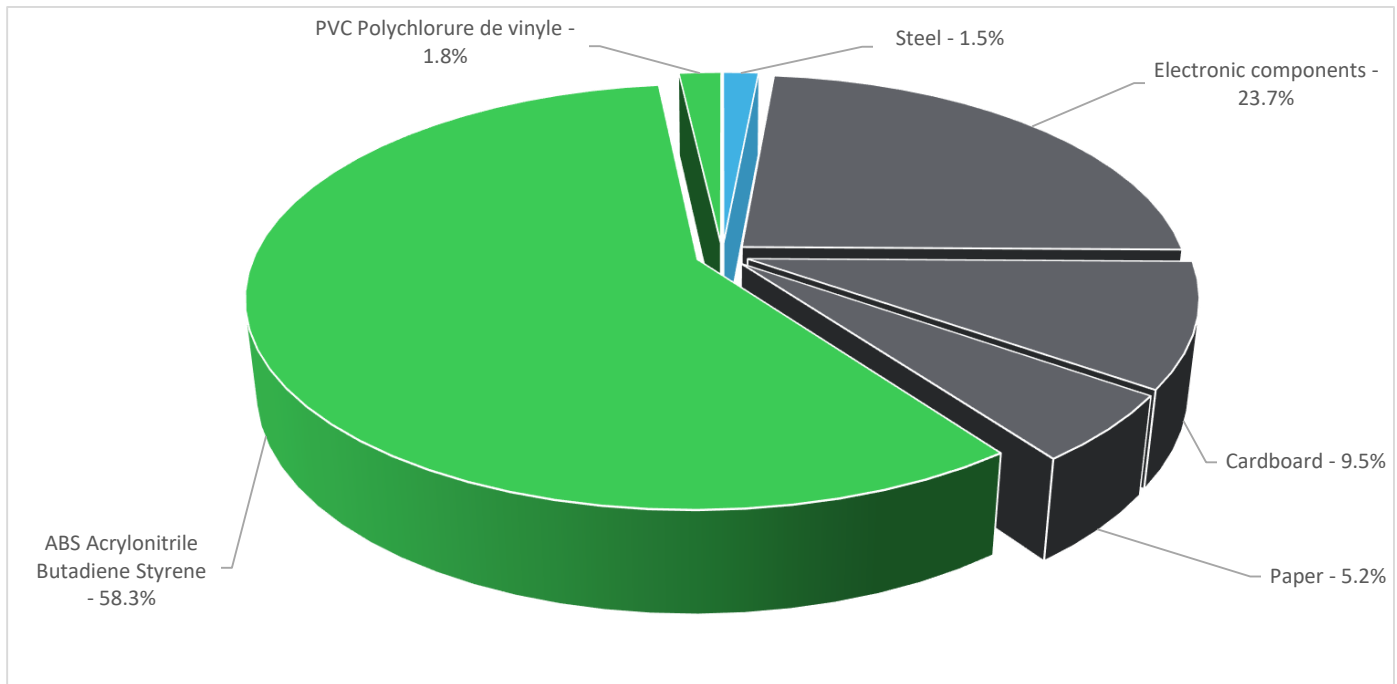
## General information

<b>Representative product</b>	WISER 16AMP RELAY - WE714U1A30S4
<b>Description of the product</b>	Wiser 16A is a device that enables Wiser Home to switch electrical circuits on and off. It can be used in many European markets to control Electrical Heating circuits such as underfloor heating and panel heaters.
<b>Functional unit</b>	Wiser 16A is a device that enables Wiser Home to switch electrical circuits on and off, operates the electrical circuit from communications with the Wiser Home and other ZigBee 3 compatible systems. Linking through 2.4GHz RF mesh technology to the each other to communicate the demands of the heating system, and other electrical circuits, over a 10 year lifespan.



## Constituent materials

**Reference product mass** 234.1 g including the product, its packaging and additional elements and accessories



Plastics	60.1%
Metals	1.5%
Others	38.4%



## 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 WISER 16AMP RELAY presents the following relevant environmental aspects

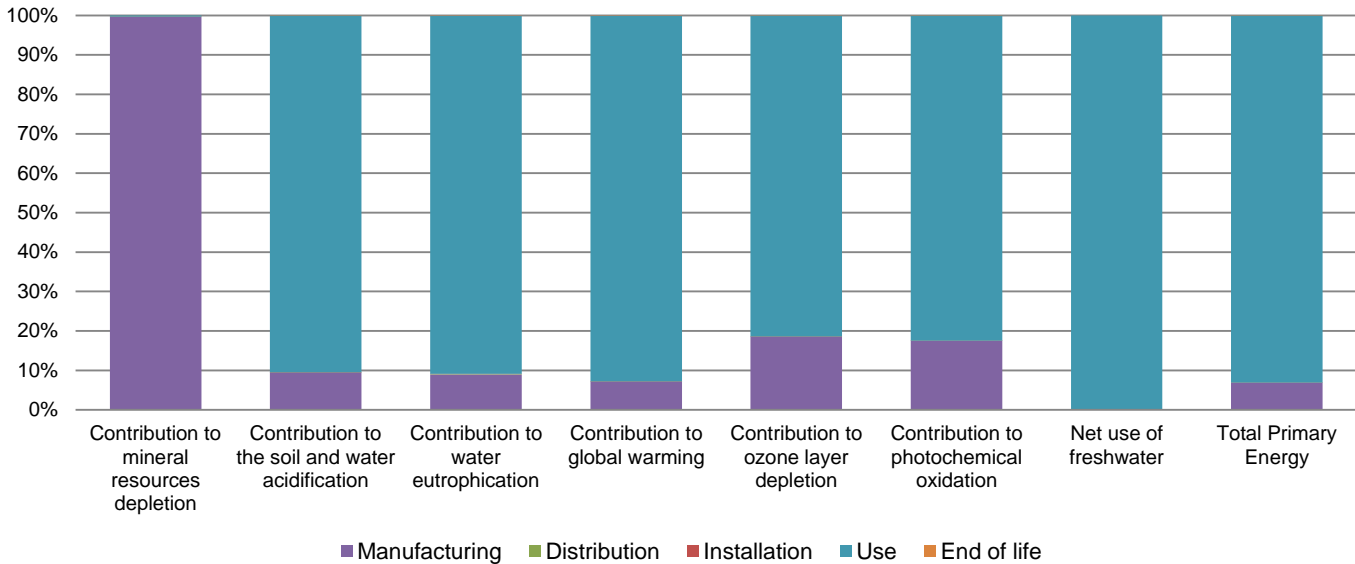
<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 34.1 g, consisting of Cardboard (65%) Paper (35%)  Product distribution optimised by setting up local distribution centres
<b>Installation</b>	Ref WE714U1A30S4 does not require any installation operations. The disposal of the packaging materials is accounted for during the installation phase (including transport to disposal).
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials  This product contains Electronic Card (55.28g) 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  <a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page">http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</a>  Recyclability potential: <b>56%</b> 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

<b>Reference life time</b>	10 years			
<b>Product category</b>	Other equipments - Active product			
<b>Installation elements</b>	Ref WE714U1A30S4 does not require any special component for the installation operations. The disposal of the packaging materials is accounted for during the installation phase (including transport to disposal).			
<b>Use scenario</b>	The product is in active mode 30% of the time with a power use of 7.3W, for 10 years.			
<b>Geographical representativeness</b>	Europe			
<b>Technological representativeness</b>	Wiser 16A is a device that enables Wiser Home to switch electrical circuits on and off. It can be used in many European markets to control Electrical Heating circuits such as underfloor heating and panel heaters.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: UK	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		WISER 16AMP RELAY - WE714U1A30S4					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	3.15E-03	3.14E-03	0*	0*	8.17E-06	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	4.34E-01	4.12E-02	1.38E-04	0*	3.92E-01	8.29E-05
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	2.61E-02	2.35E-03	3.18E-05	0*	2.37E-02	3.52E-05
Contribution to global warming	kg CO <sub>2</sub> eq	1.01E+02	7.30E+00	3.02E-02	0*	9.40E+01	1.01E-01
Contribution to ozone layer depletion	kg CFC11 eq	7.53E-06	1.40E-06	0*	0*	6.12E-06	3.74E-09
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	2.61E-02	4.58E-03	9.84E-06	0*	2.15E-02	7.45E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m <sup>3</sup>	3.41E+02	3.79E-02	0*	0*	3.41E+02	0*
Total Primary Energy	MJ	2.02E+03	1.39E+02	4.27E-01	0*	1.88E+03	3.72E-01




Optional indicators		WISER 16AMP RELAY - WE714U1A30S4					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.15E+03	7.79E+01	4.24E-01	0*	1.07E+03	3.03E-01
Contribution to air pollution	m <sup>3</sup>	4.77E+03	7.22E+02	1.28E+00	0*	4.05E+03	2.67E+00
Contribution to water pollution	m <sup>3</sup>	4.30E+03	4.11E+02	4.97E+00	0*	3.88E+03	4.89E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	3.81E-02	3.81E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2.47E+02	8.15E+00	0*	0*	2.39E+02	0*
Total use of non-renewable primary energy resources	MJ	1.77E+03	1.31E+02	4.27E-01	0*	1.64E+03	3.71E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	2.47E+02	8.13E+00	0*	0*	2.39E+02	0*
Use of renewable primary energy resources used as raw material	MJ	1.76E-02	1.76E-02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.76E+03	1.25E+02	4.27E-01	0*	1.64E+03	3.71E-01
Use of non renewable primary energy resources used as raw material	MJ	6.49E+00	6.49E+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	3.90E+00	3.51E+00	0*	0*	4.90E-02	3.42E-01
Non hazardous waste disposed	kg	3.69E+02	1.86E+01	0*	0*	3.50E+02	0*
Radioactive waste disposed	kg	2.49E-01	1.52E-02	0*	0*	2.34E-01	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.64E-01	1.77E-02	0*	3.40E-02	0*	1.12E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	2.53E-02	0*	0*	0*	0*	2.53E-02
Exported Energy	MJ	1.08E-04	1.01E-05	0*	9.77E-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 v5.8.1, 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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Date of issue	11/2020	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
		Validity period	5 years
<i>Independent verification of the declaration and data, in compliance with ISO 14025 : 2010</i>			
Internal	External X		
<i>The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)</i>			
<i>PEP are compliant with XP C08-100-1 :2016</i>			
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »</i>			
			

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