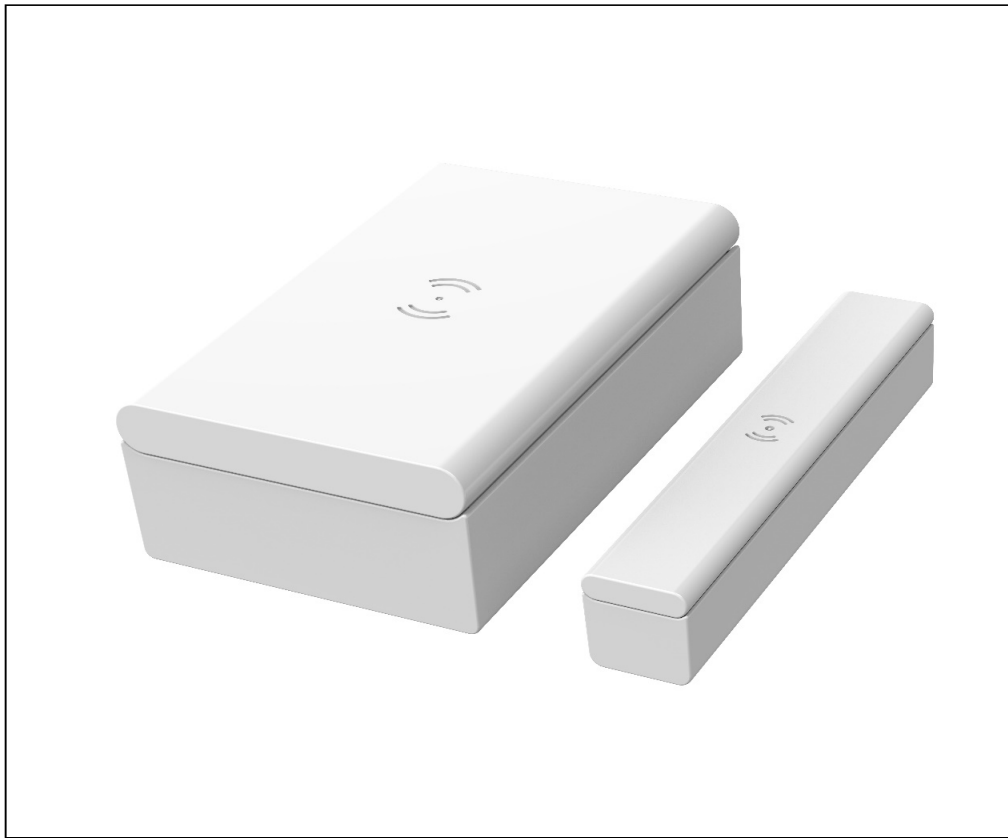


Product Environmental Profile

WINDOW / DOOR SENSOR





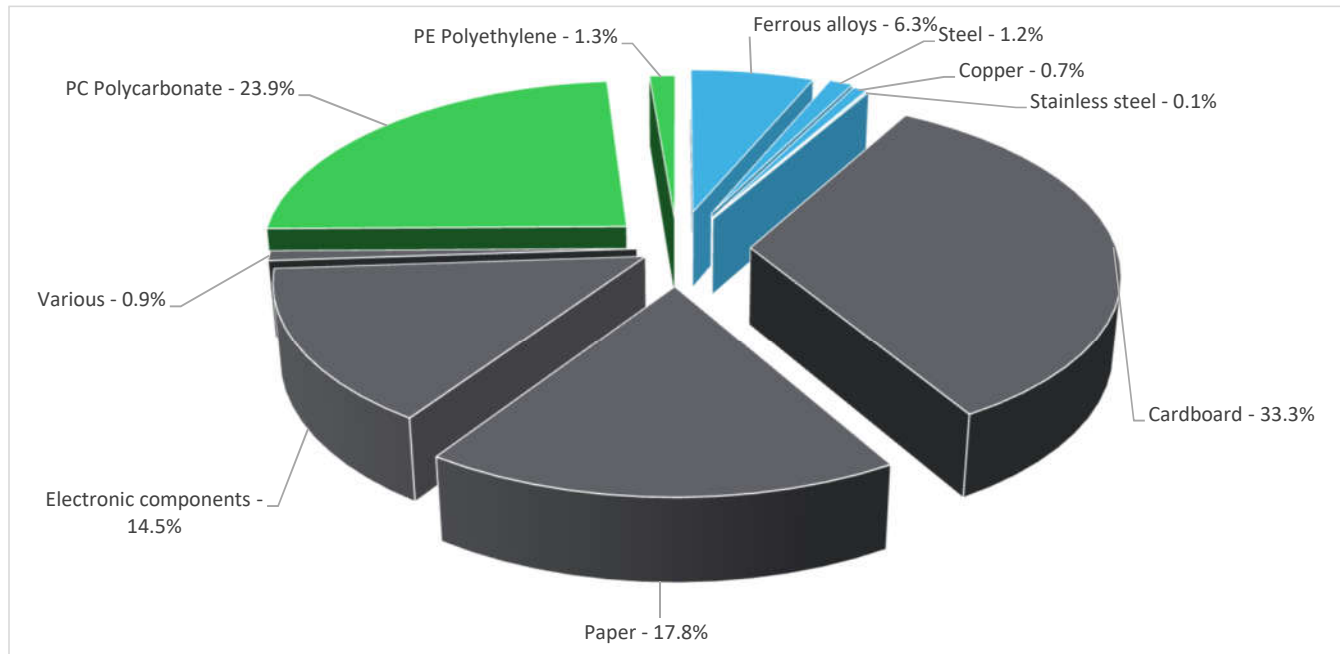
General information

Representative product	WINDOW / DOOR SENSOR - SED-WDC-G-5045
Description of the product	To sense the open/close status of a door or window for 10 years
Functional unit	<p>The window/door sensor is formed by two separate parts: slave and master. The slave part is a magnet. The master part includes the sensing circuit which detects the slave part. Support window and door safety protection in circuit with charge power from battery 3V d.c, CR2450. The function unit is accordance with the following technical data:</p> <ul style="list-style-type: none"> - Rated power \leq 90mW - Maximum transmitted power \leq 6 dBm - IP20 - Frequency band 2405-2480 MHz <p>When the battery is low (less than 10%), the LED blinks an amber color once per minute, and a message is sent to the controller.</p>



Constituent materials

Reference product mass 68.4 g including the product, its packaging and additional elements and accessories



Plastics	25.2%
Metals	8.3%
Others	66.5%



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 WINDOW / DOOR SENSOR presents the following relevant environmental aspects

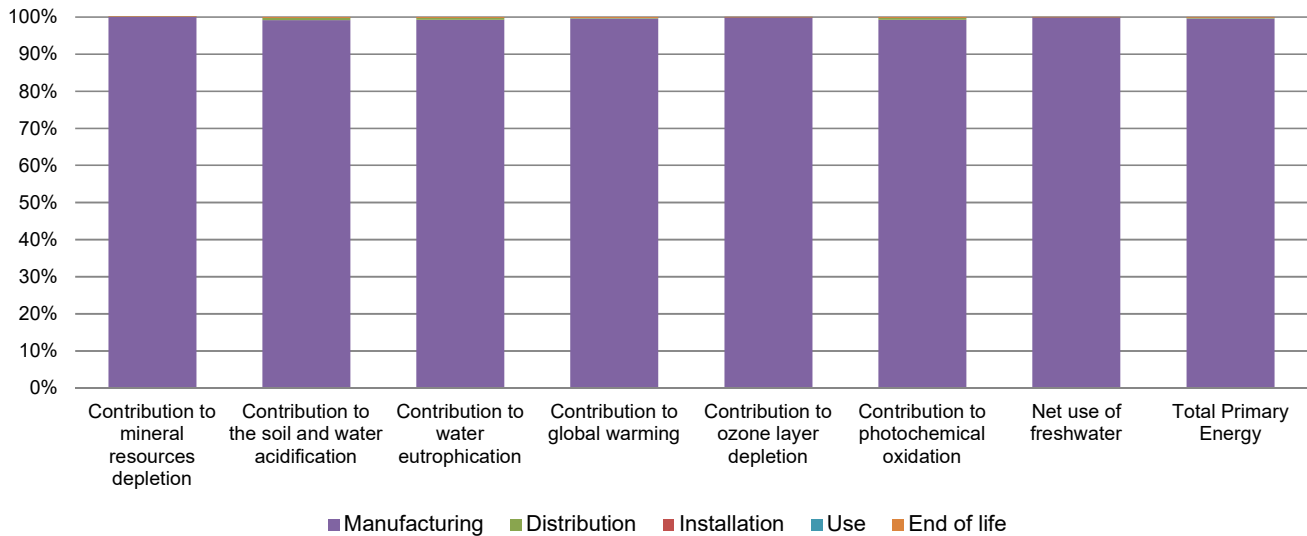
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 35.9 g, consisting of cardboard (63.5%), Paper (34%), PE (2.5%)
Installation	Reference SED-WDC-G-5045 require use screw or foam, and it included in LCA analysis. Packaging waste is considered in installation.
Use	1 Button battery of 6.1g have to be changed every 5 years.
End of life	<p>End of life optimized to decrease the amount of waste and allow recovery of the product components and materials</p> <p>This product contains electronic card (4.2g), battery(6.1g) that should be separated from the stream of waste so as to optimize end-of-life treatment.</p> <p>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</p> <p>http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</p> <p>Recyclability potential: 39% 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).</p>



Environmental impacts

Reference life time	10 years			
Product category	Other equipments - Active product			
Installation elements	screw or foam for installation, transport and disposal of packaging accounted for during installation.			
Use scenario	The one battery that will have to be replaced during the life of the products.			
Geographical representativeness	Europe			
Technological representativeness	To sense the open/close status of a door or window for 10 years			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: 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		WINDOW / DOOR SENSOR - SED-WDC-G-5045					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2.18E-05	2.18E-05	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO ₂ eq	6.37E-03	6.31E-03	4.03E-05	8.14E-07	0*	1.49E-05
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	1.81E-03	1.80E-03	9.28E-06	1.88E-07	0*	4.84E-06
Contribution to global warming	kg CO ₂ eq	4.68E+00	4.66E+00	8.83E-03	0*	0*	1.12E-02
Contribution to ozone layer depletion	kg CFC11 eq	1.28E-06	1.28E-06	0*	0*	0*	7.10E-10
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	5.52E-04	5.47E-04	2.88E-06	5.74E-08	0*	1.59E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m ³	1.89E-02	1.89E-02	0*	0*	0*	1.11E-05
Total Primary Energy	MJ	5.13E+01	5.11E+01	1.25E-01	0*	0*	7.99E-02



Optional indicators		WINDOW / DOOR SENSOR - SED-WDC-G-5045						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to fossil resources depletion	MJ	5.11E+01	5.09E+01	1.24E-01	0*	0*	9.64E-02	
Contribution to air pollution	m³	3.02E+02	3.01E+02	3.75E-01	0*	0*	6.96E-01	
Contribution to water pollution	m³	5.46E+02	5.44E+02	1.45E+00	0*	0*	6.72E-01	
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Use of secondary material	kg	7.37E-04	7.37E-04	0*	0*	0*	0*	
Total use of renewable primary energy resources	MJ	2.07E+00	2.07E+00	0*	0*	0*	0*	
Total use of non-renewable primary energy resources	MJ	4.92E+01	4.90E+01	1.25E-01	0*	0*	7.98E-02	
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.38E+00	1.38E+00	1.66E-04	0*	0*	0*	
Use of renewable primary energy resources used as raw material	MJ	6.85E-01	6.85E-01	0*	0*	0*	0*	
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.85E+01	4.83E+01	1.25E-01	0*	0*	7.98E-02	
Use of non renewable primary energy resources used as raw material	MJ	7.14E-01	7.14E-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	3.74E-01	3.11E-01	0*	8.16E-04	0*	6.22E-02	
Non hazardous waste disposed	kg	1.09E+00	1.09E+00	3.14E-04	0*	0*	1.14E-03	
Radioactive waste disposed	kg	6.86E-04	6.86E-04	2.23E-07	0*	0*	4.90E-07	
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Materials for recycling	kg	5.42E-02	6.48E-03	0*	3.51E-02	0*	1.26E-02	
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	
Materials for energy recovery	kg	2.10E-03	9.16E-05	0*	0*	0*	2.01E-03	
Exported Energy	MJ	0.00E+00	0*	0*	0*	0*	0*	

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

Life cycle assessment performed with EIME version EIME v5.7.0.2, 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).

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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<i>Date of issue</i>	05/2018	<i>Information and reference documents</i>	www.pep-ecopassport.org
		<i>Validity period</i>	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 :2014</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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