

Product Environmental Profile

PIR motion sensor with load output





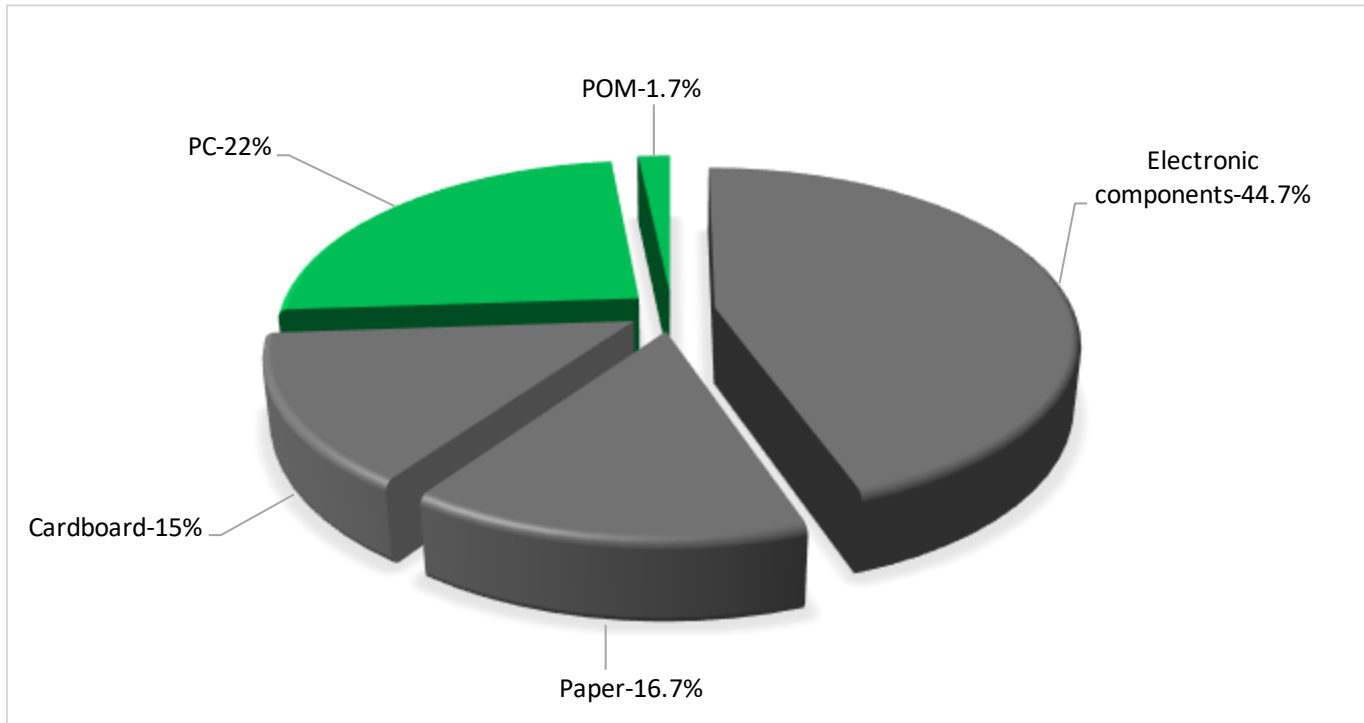
General information

Representative product	PIR motion sensor with load output - 41EPIRM-TN
Description of the product	The product is designed for detecting amplitude movements of several meters. They control On/Off lighting if a presence is detected and if the ambient brightness is below a set threshold. These detectors are particularly suitable for residential use.
Functional unit	Establish, support and interrupt for 10 years rated currents in normal conditions of circuit characterized by the current 2.5A, including any conditions specified for overload in operation characterized by the current 2.85A, for the operating voltage 240V and a current for short-circuit 5KA for a specified time.



Constituent materials

Reference product mass	59.2 g including the product, its packaging and additional elements and accessories
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Plastics	26.1%
Metals	0.0%
Others	73.9%





Substance assessment

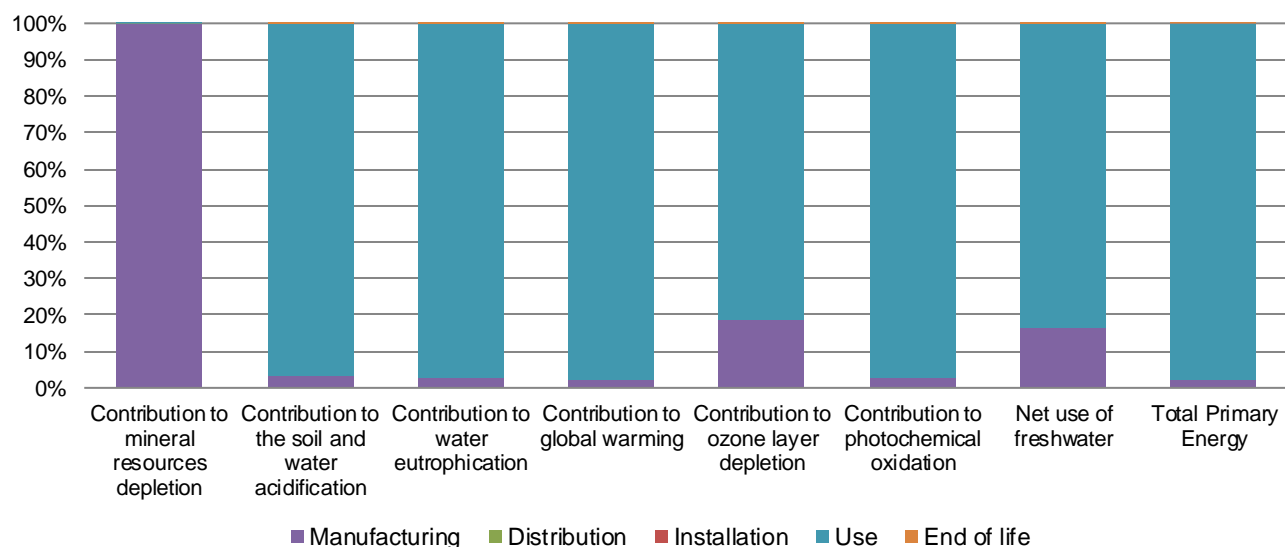
Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011 and EU 2015/863) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers – PBDE, Bis(2-ethylhexyl) phthalate -DEHP, Butyl benzyl phthalate -BBP, Dibutyl phthalate – DBP, Diisobutyl phthalate - DIBP) 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 PIR motion sensor with load output 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 19.2 g, consisting of Cardboard(48%), paper(52%) Product distribution optimised by setting up local distribution centres						
Installation	Reference 41EPIRM-TN do not need any installation 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 (26.5g) 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: 32% 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 installation components need during installation phase, but transport of packaging to disposal, and disposal of packaging accounted for during installation						
Use scenario	The product is in active mode 0.1% of the time with a power use of 3.5W and in stand-by mode 99.9% of the time with a power use of 0.506W, for 10 years						
Geographical representativeness	Australia						
Technological representativeness	The product is designed for detecting amplitude movements of several meters. They control On/Off lighting if a presence is detected and if the ambient brightness is below a set threshold. These detectors are particularly suitable for residential use.						
Energy model used	Manufacturing	Installation	Use	End of life			
	Energy model used: China	Electricity mix; AC; consumption mix, at consumer; 240V; AU	Electricity mix; AC; consumption mix, at consumer; 240V; AU	Electricity mix; AC; consumption mix, at consumer; 240V; AU			
Compulsory indicators		PIR motion sensor with load output - 41EPIRM-TN					
Im pact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	6.30E-04	6.29E-04	0*	0*	1.96E-07	0*
Contribution to the soil and w ater acidification	kg SO ₂ eq	5.26E-02	1.69E-03	3.53E-05	0*	5.09E-02	1.39E-05
Contribution to w ater eutrophication	kg PO ₄ ³⁻ eq	1.39E-02	4.01E-04	8.13E-06	0*	1.34E-02	4.33E-06
Contribution to global w arming	kg CO ₂ eq	5.08E+01	1.17E+00	7.73E-03	0*	4.96E+01	9.48E-03
Contribution to ozone layer depletion	kg CFC11 eq	7.32E-07	1.36E-07	0*	0*	5.96E-07	4.54E-10
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	7.12E-03	2.08E-04	2.52E-06	0*	6.91E-03	1.38E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshw ater	m3	6.04E-02	9.84E-03	0*	0*	5.05E-02	7.05E-06
Total Primary Energy	MJ	7.45E+02	1.64E+01	1.09E-01	0*	7.29E+02	0*



Optional indicators		PIR motion sensor with load output - 41EPIRM-TN					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	7.94E+02	1.58E+01	1.09E-01	0*	7.78E+02	0*
Contribution to air pollution	m³	4.92E+03	1.56E+02	0*	0*	4.77E+03	0*
Contribution to water pollution	m³	2.45E+03	1.68E+02	1.27E+00	0*	2.28E+03	6.43E-01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.48E-03	1.48E-03	0*	0*	0*	0*
Total use of renew able primary energy resources	MJ	1.96E+01	5.34E-01	0*	0*	1.91E+01	0*
Total use of non-renew able primary energy resources	MJ	7.26E+02	1.59E+01	1.09E-01	0*	7.10E+02	0*
Use of renew able primary energy excluding renew able primary energy used as raw material	MJ	1.93E+01	2.08E-01	0*	0*	1.91E+01	0*
Use of renew able primary energy resources used as raw material	MJ	3.26E-01	3.26E-01	0*	0*	0*	0*
Use of non renew able primary energy excluding non renew able primary energy used as raw material	MJ	7.25E+02	1.51E+01	1.09E-01	0*	7.10E+02	0*
Use of non renew able primary energy resources used as raw material	MJ	8.20E-01	8.20E-01	0*	0*	0*	0*
Use of non renew able secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of renew able 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	2.19E+00	6.18E-01	0*	0*	1.50E+00	7.33E-02
Non hazardous waste disposed	kg	8.35E+00	2.47E-01	0*	0*	8.10E+00	0*
Radioactive waste disposed	kg	6.44E-04	2.92E-04	1.96E-07	0*	3.52E-04	3.53E-07
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3.56E-02	3.39E-03	0*	1.91E-02	0*	1.31E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.72E-03	0*	0*	0*	0*	1.72E-03
Exported Energy	MJ	6.07E-05	5.70E-06	0*	5.50E-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 v5.6.0.1, 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.

<i>Registration number</i>	ENVPEP1802001_V1-EN	<i>Drafting rules</i>	PCR-ed3-EN-2015 04 02
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<i>Validity period</i>	5 years	<i>Information and reference documents</i>	www.pep-ecopassport.org
<i>Independent verification of the declaration and data</i>			
Internal	X	External	
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »</i>			

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