

Product Environmental Profile

HeatTag Sensor Cable Overheating Zigbee





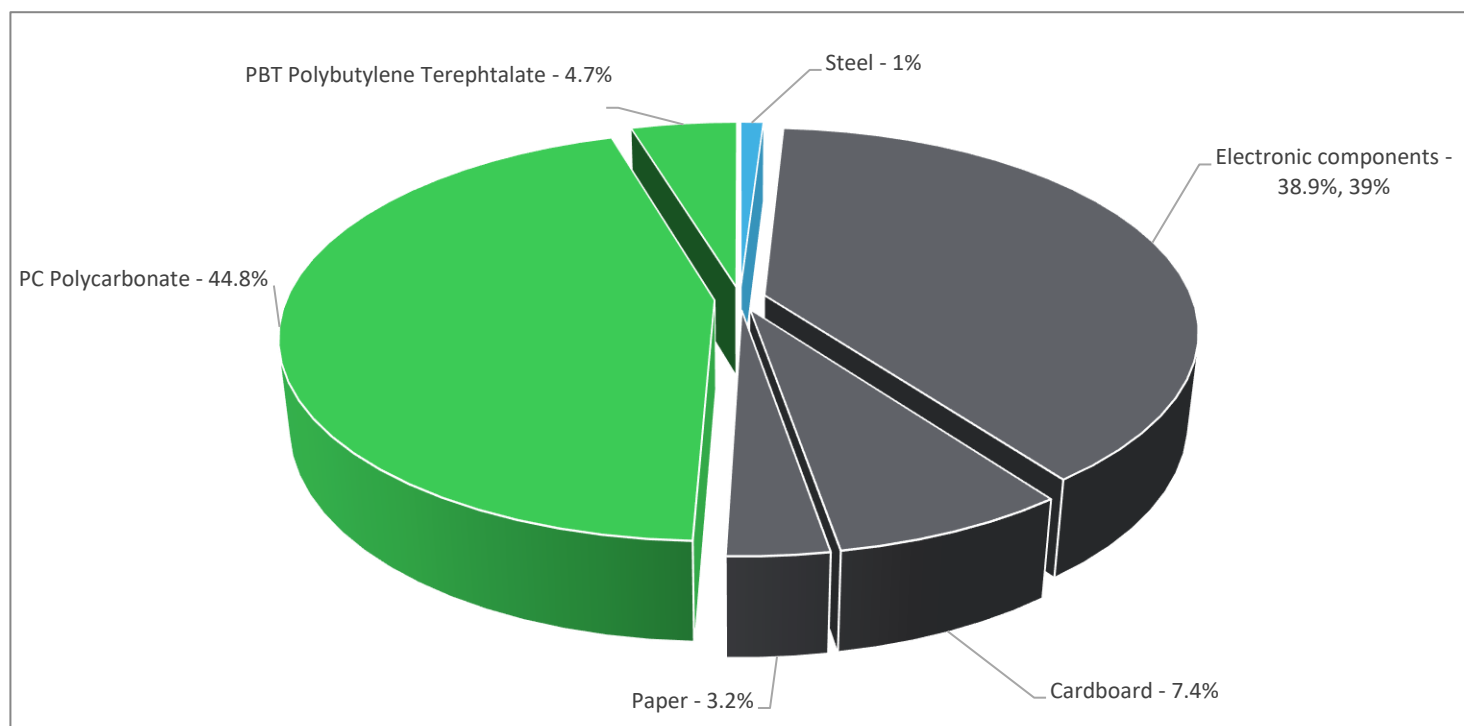
General information

Representative product	HeatTag Sensor Cable Overheating Zigbee - SMT10020
Description of the product	HeatTag is a smart sensor for early detection of overheating wire connections or overheating cables. Sends three levels of alert depending on the severity of the situation it detects To prevent electrical switchboards from being damaged, by analyzing gas and particles in the air and sending alerts before any smoke or insulator browning.
Functional unit	The Main purpose of HeatTag, it is a smart wireless sensor for early detection of overheating cables during 10 years. Power supply: 110–277 VA Frequency: 50–60 Hz Maximum consumption: 0.1 A



Constituent materials

Reference product mass 288 g including the product, its packaging and additional elements and accessories



Plastics	49.5%
Metals	1.0%
Others	49.5%



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 HeatTag Sensor Cable Overheating Zigbee presents the following relevant environmental aspects

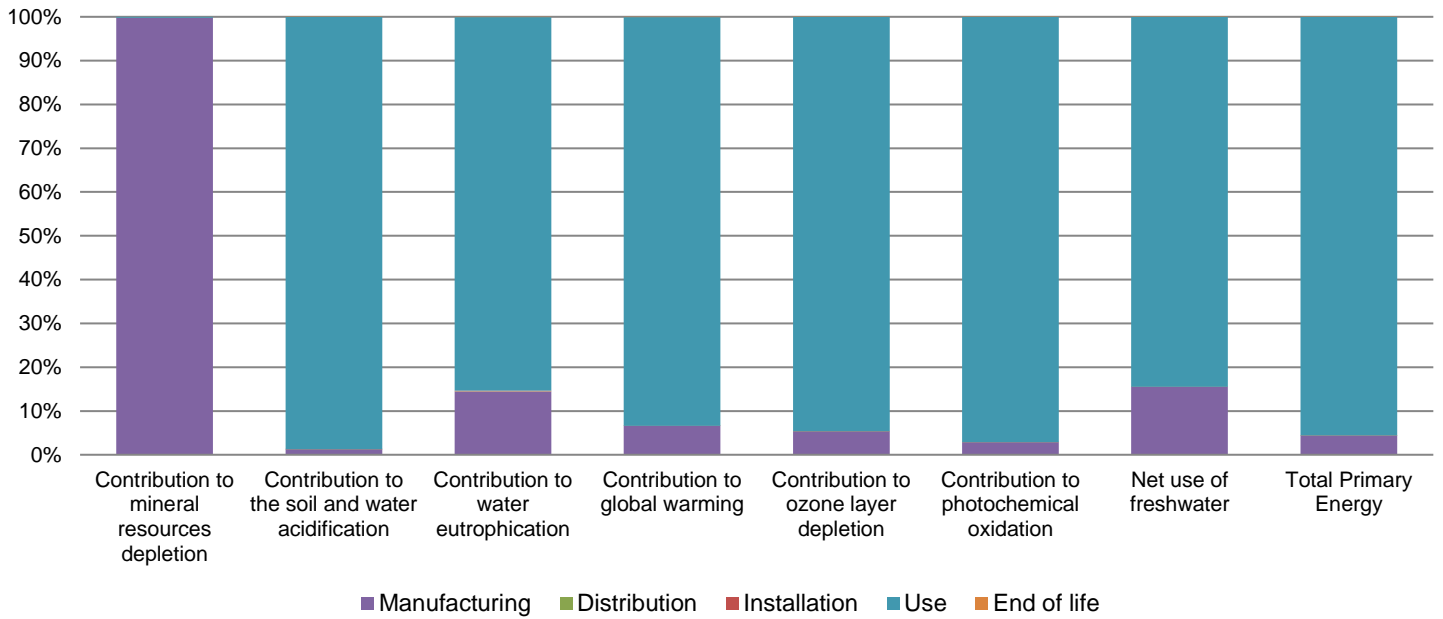
Manufacturing	Manufactured at a Certified Schneider Electric partner production site complying with the regulations
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 29.9 g, consisting of Cardboard (70.3%) and Paper (29.7%) 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 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 PCBA (110.4923) 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: 7% Based on "ECO'DEEEE 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	The product is in active mode 100% of the time with a power use of 4W, for 10 years.			
Geographical representativeness	Europe ,US , 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.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: France	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		HeatTag Sensor Cable Overheating Zigbee - SMT10020					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	4.77E-03	4.76E-03	0*	0*	9.42E-06	0*
Contribution to the soil and water acidification	kg SO ₂ eq	1.59E+00	2.05E-02	1.70E-04	0*	1.56E+00	0*
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	6.88E-02	9.94E-03	3.91E-05	8.12E-05	5.86E-02	6.36E-05
Contribution to global warming	kg CO ₂ eq	2.22E+02	1.46E+01	3.72E-02	4.25E-02	2.07E+02	2.00E-01
Contribution to ozone layer depletion	kg CFC11 eq	5.31E-05	2.83E-06	0*	0*	5.03E-05	6.77E-09
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	7.62E-02	2.19E-03	1.21E-05	1.03E-05	7.39E-02	1.05E-05

Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	6.39E-01	9.93E-02	0*	0*	5.40E-01	1.01E-04
Total Primary Energy	MJ	4.39E+03	1.94E+02	5.25E-01	0*	4.19E+03	5.38E-01



Optional indicators	HeatTag Sensor Cable Overheating Zigbee - SMT10020						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2.26E+03	1.26E+02	5.22E-01	0*	2.13E+03	4.41E-01
Contribution to air pollution	m³	1.00E+04	1.12E+03	1.58E+00	0*	8.87E+03	3.94E+00
Contribution to water pollution	m³	1.01E+04	1.38E+03	6.11E+00	2.43E+00	8.68E+03	8.54E+00
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 renewable primary energy resources	MJ	3.07E+02	7.19E+00	0*	0*	3.00E+02	0*
Total use of non-renewable primary energy resources	MJ	4.08E+03	1.87E+02	5.25E-01	0*	3.89E+03	5.38E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3.07E+02	6.61E+00	0*	0*	3.00E+02	0*
Use of renewable primary energy resources used as raw material	MJ	5.72E-01	5.72E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.07E+03	1.81E+02	5.25E-01	0*	3.89E+03	5.38E-01
Use of non renewable primary energy resources used as raw material	MJ	5.95E+00	5.95E+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	8.56E+00	7.96E+00	0*	0*	0*	6.02E-01
Non hazardous waste disposed	kg	7.80E+02	6.06E+00	0*	0*	7.74E+02	0*
Radioactive waste disposed	kg	6.46E-01	1.51E-02	0*	0*	6.31E-01	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2.15E-02	3.36E-03	0*	0*	0*	1.81E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	5.46E-02	0*	0*	0*	0*	5.46E-02
Exported Energy	MJ	9.45E-05	8.88E-06	0*	8.56E-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 Manufacturing phase is impacting on Indicator of Abiotic depletion (elements, ultimate ultimate reserves) (ADPe for EN15804) and The use phase is the life cycle phase which has the greatest impact on the rest 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.

Registration number :	SCHN-00654-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	02/2021	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 »			



Schneider Electric Industries SAS

Country Customer Care Center
<http://www.schneider-electric.com/contact>

35, rue Joseph Monier

CS 30323

F- 92506 Rueil Malmaison Cedex

RCS Nanterre 954 503 439

Capital social 896 313 776 €

www.schneider-electric.com

Published by Schneider Electric

SCHN-00654-V01.01-EN

© 2019 - Schneider Electric – All rights reserved

02/2021