Product Environmental Profile

HeatTag Sensor Cable Overheating Zigbee







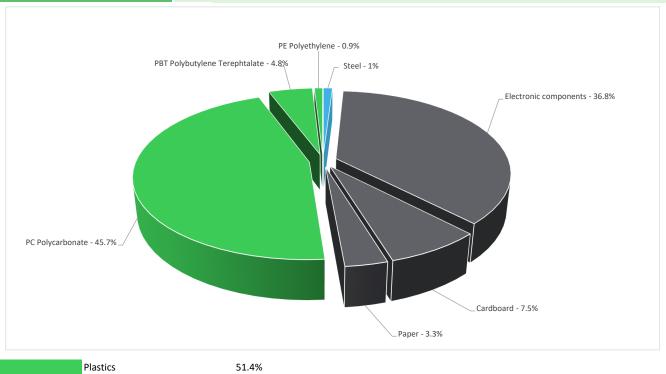


General information

Reference 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
 51.4%

 Metals
 1.0%

 Others
 47.6%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website https://www.se.com/ww/en/work/support/green-premium/

Additional environmental information Installation elements No special components needed during the installation phase. The disposal of the packaging materials is accounted for the during this phase (including transport to disposal). Recyclability potential: Recyclability potential: 1% Recyclability rate has been calculated based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).

T Environmental impacts

Reference service 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 27.7W for 10 years.						
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.						
Geographical representativeness	Europe						
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]			
	Electricity Mix; Production mix; Low voltage; FR	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27			

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.schneider-electric.com/contact

Mandatory Indicators			HeatTag Sensor Cable Overheating Zigbee - SMT10020					
	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Benefits
Impact indicators			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	1.09E+03	9.47E+01	0*	0*	9.95E+02	5.59E-01	-5.95E-02
Contribution to climate change-fossil	kg CO2 eq	1.09E+03	9.46E+01	0*	0*	9.93E+02	5.49E-01	-6.50E-02
Contribution to climate change-biogenic	kg CO2 eq	1.36E+00	2.36E-02	0*	2.44E-03	1.33E+00	9.70E-03	5.49E-03
Contribution to climate change-land use and land use change	∍ kg CO2 eq	5.79E-08	4.46E-08	0*	1.33E-08	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.66E-05	1.23E-05	7.33E-08	3.70E-09	4.25E-06	1.35E-08	-5.72E-09
Contribution to acidification	mol H+ eq	6.28E+00	5.98E-01	0*	0*	5.68E+00	5.02E-03	-3.23E-04
Contribution to eutrophication, freshwater	kg (PO4)³- eq	2.88E-03	1.56E-04	0*	4.56E-07	2.72E-03	3.41E-06	-4.47E-07
Contribution to eutrophication marine	kg N eq	7.12E-01	6.36E-02	1.66E-04	0*	6.45E-01	3.57E-03	-5.08E-05
Contribution to eutrophication, terrestrial	mol N eq	1.04E+01	6.73E-01	1.80E-03	0*	9.69E+00	1.95E-03	-4.66E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.30E+00	2.24E-01	5.89E-04	0*	2.07E+00	7.44E-04	-1.46E-04
Contribution to resource use, minerals and metals	kg Sb eq	1.58E-02	1.57E-02	0*	0*	7.20E-05	0*	-1.34E-05
Contribution to resource use, fossils	MJ	2.64E+04	1.05E+03	0*	0*	2.53E+04	0*	-1.14E+00
Contribution to water use	m3 eq	1.20E+02	2.18E+01	0*	2.67E-02	3.52E+01	6.34E+01	-2.80E-02

Additional indicators for the French regulation are available as well

Inventory flows Indicators				HeatTag Sensor Cable Overheating Zigbee - SMT10020				
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Benefits
ilivelitory nows			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	4.91E+03	4.19E+01	0*	0*	4.87E+03	0*	1.58E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	1.29E-01	1.29E-01	0*	0*	0*	0*	-1.31E-01
Contribution to total use of renewable primary energy resources	MJ	4.91E+03	4.20E+01	0*	0*	4.87E+03	0*	2.70E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.64E+04	1.05E+03	0*	0*	2.53E+04	0*	-1.03E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	5.86E+00	5.86E+00	0*	0*	0*	0*	-1.13E-01
Contribution to total use of non-renewable primary energy resources	MJ	2.64E+04	1.05E+03	0*	0*	2.53E+04	0*	-1.14E+00
Contribution to use of secondary material	kg	2.71E-02	2.71E-02	0*	0*	0*	0*	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to net use of freshwater	m³	2.99E+00	5.08E-01	0*	6.23E-04	8.19E-01	1.66E+00	-6.51E-04
Contribution to hazardous waste disposed	kg	3.13E+02	2.94E+02	0*	0*	1.86E+01	2.48E-01	-1.05E+00
Contribution to non hazardous waste disposed	kg	1.65E+02	2.20E+01	0*	1.77E-01	1.43E+02	1.39E-01	-4.29E-01
Contribution to radioactive waste disposed	kg	4.04E-02	1.04E-02	1.65E-05	2.39E-05	3.00E-02	6.15E-06	-3.44E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	5.47E-02	1.97E-02	0*	3.23E-02	0*	2.74E-03	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to biogenic carbon content of the product	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00

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

Life cycle assessment performed with EIME version v5.9.4, database version 2022-01 in compliance with ISO 14044.

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.schneider-electric.com/contact

The use phase has the greatest impacts contribution on the majority of environmental indicators, except for Climate change-Land use and land use change (PEF-GWPlu), Water Use (PEF-WU), Ozone depletion(PEF-ODP) and Resource use minerals and metals(PEF-ADPe) this contribution is mainly due to the energy consumption throughout the product reference service lifetime.

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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Independent verification of the declaration and data, in compliance with ISO 14025 : 2010

External X

The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)

PEP are compliant with XP C08-100-1 :2016 or EN 50693:2019

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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