

# Product Environmental Profile

## WATER LEAKAGE SENSOR





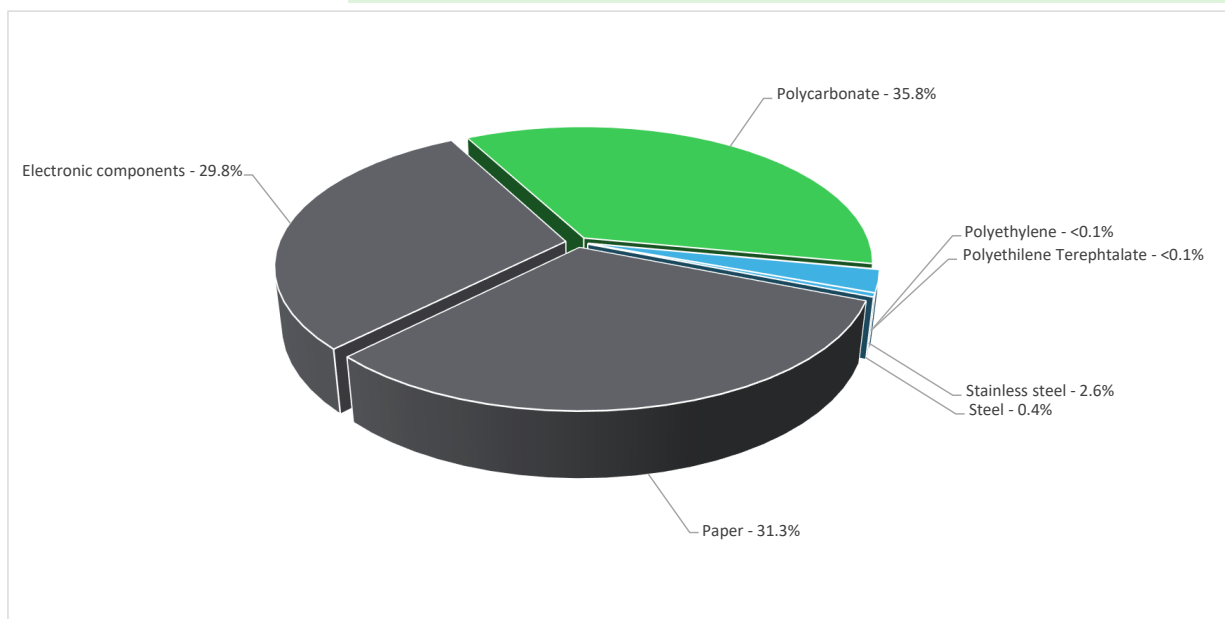
## General information

Reference product	Wiser water leakage sensor - CCT592012
Description of the product	The Water Leakage Sensor detects the presence of water and alerts through an alarm and/or notification.
Description of the range	Single product
Functional unit	<p>Water sensors detect the presence of water and, when placed in locations where water should not be present, a leak. When Wi-Fi is enabled, the sensor can send out a notification to the connected devices with the dimensions of 71 x 69 x 19 mm for the reference service life time of 10 years with following specifications.</p> <ul style="list-style-type: none"> <li>- Nominal power : ≤90 mW</li> <li>- Operating frequency : 2405 - 2480 MHz</li> <li>- Max. radiofrequency power transmitted : ≤5 dBm</li> <li>- IP rating : IP44 in accordance with the standard IEC 60529</li> <li>- Operating temperature : -10 °C to 50 °C</li> <li>- Relative humidity : 5% to 90%</li> </ul>



## Constituent materials

Reference product mass	95.21 g including the product and its packaging
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Others	61.2%
Plastics	35.8%
Metals	3.0%



## Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website

<https://www.se.com/ww/en/work/support/green-premium/>



## Additional environmental information

End Of Life	Recyclability potential:	4%	<p>The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECYLAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability).</p>
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**Environmental impacts**

Reference service life time	10 years			
Product category	Other equipments - Active product			
Life cycle of the product	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study			
Electricity consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible consumption			
Installation elements	This product does not require a special installation procedure and requires little to no energy to install. The disposal of the packaging materials is accounted for during the installation phase (including transport to disposal). The material constituent of the packaging is Paper (99.99%), Polyethylene (<0.1%) & Polyethylene Terephthalate (<0.1%)			
Use scenario	No power consumption since product works with battery Substitution of 2 batteries has been considered			
Time representativeness	The collected data are representative of the year 2023			
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are Similar and representative of the actual type of technologies used to make the product.			
Final assembly site	China			
Geographical representativeness	Europe			
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Low voltage; 2020; China, CN Electricity Mix; Low voltage; 2020; Europe, EU-27	Electricity Mix; Low voltage; 2020; Europe, EU-27	-	Electricity Mix; Low voltage; 2020; Europe, EU-27

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.se.com/contact>

Mandatory Indicators		WATER LEAKAGE SENSOR - CCT592012						
Impact indicators	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to climate change	kg CO2 eq	1.46E+00	9.46E-01	1.29E-01	3.24E-02	1.59E-01	1.90E-01	-9.08E-03
Contribution to climate change-fossil	kg CO2 eq	1.51E+00	9.96E-01	1.29E-01	3.09E-02	1.60E-01	1.90E-01	-4.43E-02
Contribution to climate change-biogenic	kg CO2 eq	-4.99E-02	-5.02E-02	0*	0*	-1.45E-03	0*	3.52E-02
Contribution to climate change-land use and land use change	kg CO2 eq	5.30E-05	5.30E-05	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	2.72E-07	1.36E-07	1.13E-07	4.20E-10	2.19E-08	1.55E-10	-5.11E-09
Contribution to acidification	mol H+ eq	8.15E-03	6.48E-03	5.30E-04	9.49E-05	8.83E-04	1.52E-04	-2.36E-04
Contribution to eutrophication, freshwater	kg P eq.	6.67E-06	4.23E-06	1.50E-08	7.43E-07	1.01E-06	6.66E-07	-5.24E-07
Contribution to eutrophication marine	kg N eq	1.23E-03	7.83E-04	2.41E-04	4.13E-05	9.70E-05	6.39E-05	-5.70E-05
Contribution to eutrophication, terrestrial	mol N eq	1.31E-02	8.45E-03	2.62E-03	2.87E-04	1.03E-03	6.82E-04	-4.92E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	4.28E-03	2.82E-03	8.73E-04	6.58E-05	3.46E-04	1.71E-04	-1.38E-04
Contribution to resource use, minerals and metals	kg Sb eq	1.92E-04	1.81E-04	0*	0*	1.12E-05	0*	-1.98E-06
Contribution to resource use, fossils	MJ	2.09E+01	1.61E+01	1.60E+00	3.21E-01	2.03E+00	8.36E-01	-5.61E-01
Contribution to water use	m3 eq	1.54E+00	1.44E+00	6.52E-03	2.50E-03	7.87E-02	1.20E-02	-1.37E-02

Inventory flows Indicators		WATER LEAKAGE SENSOR - CCT592012						
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	6.75E-01	6.31E-01	0*	4.21E-02	7.52E-04	8.21E-04	1.02E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	5.68E-01	5.49E-01	0*	0*	1.92E-02	0*	-4.48E-01
Contribution to total use of renewable primary energy resources	MJ	1.24E+00	1.18E+00	0*	4.21E-02	2.00E-02	8.21E-04	-3.46E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.95E+01	1.48E+01	1.60E+00	3.21E-01	1.98E+00	8.36E-01	-5.61E-01
Contribution to use of non renewable primary energy resources used as raw material	MJ	1.36E+00	1.31E+00	0*	0*	4.45E-02	0*	-1.58E-04
Contribution to total use of non-renewable primary energy resources	MJ	2.09E+01	1.61E+01	1.60E+00	3.21E-01	2.03E+00	8.36E-01	-5.61E-01
Contribution to use of secondary material	kg	0.00E+00	0*	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	3.58E-02	3.35E-02	1.52E-04	5.83E-05	1.83E-03	2.79E-04	-3.19E-04
Contribution to hazardous waste disposed	kg	2.87E+00	2.81E+00	0*	8.09E-04	2.51E-02	2.86E-02	-1.44E-01
Contribution to non hazardous waste disposed	kg	5.26E-01	4.71E-01	1.31E-04	1.39E-02	3.57E-03	3.79E-02	-2.33E-02
Contribution to radioactive waste disposed	kg	3.19E-04	2.87E-04	2.56E-05	1.72E-06	2.37E-06	1.58E-06	-1.08E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	3.01E-03	1.55E-04	0*	3.36E-06	0*	2.85E-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

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

Contribution to biogenic carbon content of the product kg of C 0.00E+00

Contribution to biogenic carbon content of the associated packaging kg of C 1.15E-02

\* The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)

Mandatory Indicators		WATER LEAKAGE SENSOR - CCT592012							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	1.59E-01	0*	1.59E-01	0*	0*	0*	0*	0*
Contribution to climate change-fossil	kg CO2 eq	1.60E-01	0*	1.60E-01	0*	0*	0*	0*	0*
Contribution to climate change-biogenic	kg CO2 eq	-1.45E-03	0*	-1.45E-03	0*	0*	0*	0*	0*
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	2.19E-08	0*	2.19E-08	0*	0*	0*	0*	0*
Contribution to acidification	mol H+ eq	8.83E-04	0*	8.83E-04	0*	0*	0*	0*	0*
Contribution to eutrophication, freshwater	kg P eq.	1.01E-06	0*	1.01E-06	0*	0*	0*	0*	0*
Contribution to eutrophication marine	kg N eq	9.70E-05	0*	9.70E-05	0*	0*	0*	0*	0*
Contribution to eutrophication, terrestrial	mol N eq	1.03E-03	0*	1.03E-03	0*	0*	0*	0*	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.46E-04	0*	3.46E-04	0*	0*	0*	0*	0*
Contribution to resource use, minerals and metals	kg Sb eq	1.12E-05	0*	1.12E-05	0*	0*	0*	0*	0*
Contribution to resource use, fossils	MJ	2.03E+00	0*	2.03E+00	0*	0*	0*	0*	0*
Contribution to water use	m3 eq	7.87E-02	0*	7.87E-02	0*	0*	0*	0*	0*

Inventory flows Indicators		WATER LEAKAGE SENSOR - CCT592012							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	7.52E-04	0*	7.52E-04	0*	0*	0*	0*	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	1.92E-02	0*	1.92E-02	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	2.00E-02	0*	2.00E-02	0*	0*	0*	0*	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.98E+00	0*	1.98E+00	0*	0*	0*	0*	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	4.45E-02	0*	4.45E-02	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	2.03E+00	0*	2.03E+00	0*	0*	0*	0*	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m³	1.83E-03	0*	1.83E-03	0*	0*	0*	0*	0*
Contribution to hazardous waste disposed	kg	2.51E-02	0*	2.51E-02	0*	0*	0*	0*	0*
Contribution to non hazardous waste disposed	kg	3.57E-03	0*	3.57E-03	0*	0*	0*	0*	0*
Contribution to radioactive waste disposed	kg	2.37E-06	0*	2.37E-06	0*	0*	0*	0*	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	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 v6.2.3, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology 0/0 is used

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-01307-V01.01-EN	Drafting rules	PCR-4-ed4-EN-2021 09 06
		Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Verifier accreditation N°	VH42	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Date of issue	12-2024	Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006			
Internal                      External      X			
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)			
PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022			
The components of the present PEP may not be compared with components from any other program.			
Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"			



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