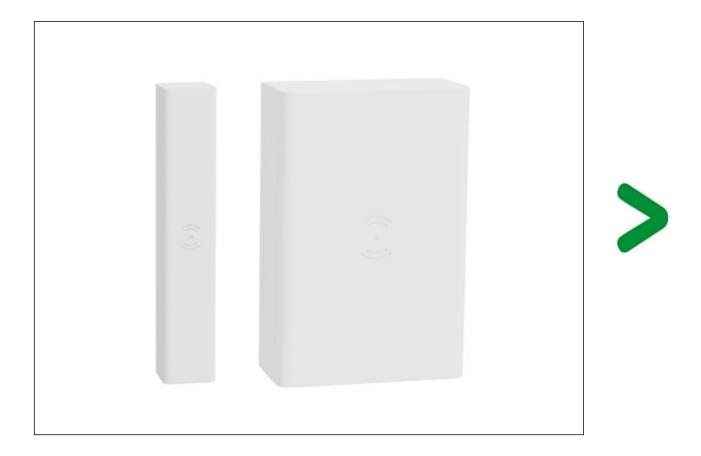
Product Environmental Profile

WINDOW / DOOR SENSOR







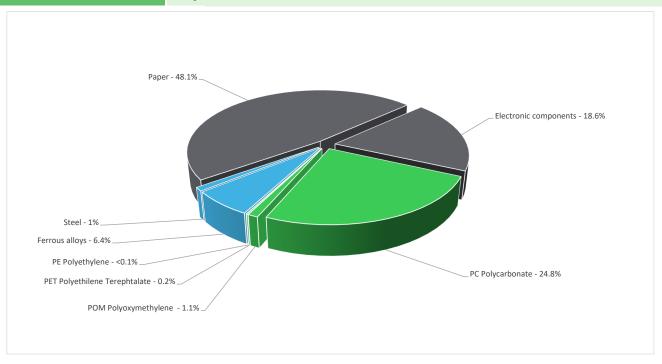
General information

Reference product	Wiser window / door sensor - CCT591012
Description of the product	The purpose of the product is to sense the open/close status of a door or window which includes a main sensor body and a magnet, which work together to determine whether the window/door is open or closed.
Description of the range	Single product
Functional unit	The window/door sensor function is to detect openings and closings, providing real-time information to support window and door safety protection in circuit with charge power from battery 3V d.c,CR2450 with the dimension of Sensor 50 mm x 33 mm x 16.3 mm & Magnet 50 mm x 9 mm x 9 mm according to the appropriate use scenario with IP20 degree of protection against ingress of solid foreign objects and water with harmful effects in accordance with the standard IEC 60529 for reference service life time of 10 years.
Specifications are:	Un, rated Voltage (V) - 3 (Supply battery 3 V / CR2450) Rated power ≤ 90mW Maximum transmitted power ≤ 7 dBm Frequency band 2405-2480 MHz

\<u>\$</u>

Constituent materials

Reference product mass 64.16 g including the product and its packaging



 Others
 66.6%

 Plastics
 26.0%

 Metals
 7.4%

Substance assessment

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

https://www.se.com

(19) Additional environmental information

End Of Life Recyclability potential: 14% based on REEd data from the E assumption was

The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECY'LAB 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).

Environmental impacts

Reference service life time	10 years										
Product category	Other equipments - Active product	Other equipments - Active product									
Life cycle of the product	The manufacturing, the distribution, the installatio	n, the use and the end of life w	ere taken into consideration in	this study							
Electricity consumtion	The electricity consumed during manufacturing prigenerates a negligable consumption	rocesses is considered for each	h part of the product individual	y, the final assembly							
Installation elements	The product does not require special installation product are accounted during the installation ph			sal of the packaging							
Use scenario	No power consumption since products works with	Battery. Substitution of 1 batte	ery 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										
	[A1 - A3]	[A5]	[B6]	[C1 - C4]							
Energy model used	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		Wiser window / door sensor - CCT591012						
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	1.33E+00	9.72E-01	2.03E-02	3.42E-02	2.08E-01	9.83E-02	2.28E-03
Contribution to climate change-fossil	kg CO2 eq	1.39E+00	1.03E+00	2.03E-02	3.25E-02	2.07E-01	9.83E-02	-3.48E-02
Contribution to climate change-biogenic	kg CO2 eq	-5.35E-02	-5.55E-02	0*	0*	0*	0*	3.71E-02
Contribution to climate change-land use and land use change	e kg CO2 eq	2.54E-05	2.53E-05	0*	0*	1.25E-07	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	5.06E-07	3.00E-07	1.80E-08	4.43E-10	1.87E-07	7.35E-11	-1.36E-09
Contribution to acidification	mol H+ eq	7.66E-03	6.42E-03	8.84E-05	1.00E-04	9.37E-04	1.07E-04	-1.86E-04
Contribution to eutrophication, freshwater	kg P eq	2.23E-04	1.12E-04	0*	7.83E-07	1.09E-04	2.93E-07	-5.13E-07
Contribution to eutrophication marine	kg N eq	1.43E-03	9.80E-04	4.06E-05	4.35E-05	3.26E-04	3.73E-05	-5.37E-05
Contribution to eutrophication, terrestrial	mol N eq	1.16E-02	8.74E-03	4.40E-04	3.03E-04	1.74E-03	4.01E-04	-4.48E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.93E-03	3.01E-03	1.44E-04	6.94E-05	6.00E-04	1.08E-04	-1.17E-04
Contribution to resource use, minerals and metals	kg Sb eq	1.59E-04	1.54E-04	0*	0*	5.01E-06	0*	-7.71E-07
Contribution to resource use, fossils	MJ	1.80E+01	1.45E+01	2.53E-01	3.39E-01	1.83E+00	1.13E+00	-4.50E-01
Contribution to water use	m3 eq	6.65E+00	3.49E+00	1.03E-03	2.64E-03	3.14E+00	9.56E-03	-9.12E-03

Inventory flows Indicators	Wiser window / door sensor - CCT591012								
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	6.43E-01	5.33E-01	0*	4.44E-02	6.55E-02	3.86E-04	1.08E-01	
Contribution to use of renewable primary energy resources used as raw material	MJ	5.84E-01	5.79E-01	0*	0*	5.14E-03	0*	-4.72E-01	
Contribution to total use of renewable primary energy resources	MJ	1.23E+00	1.11E+00	0*	4.44E-02	7.06E-02	3.86E-04	-3.64E-01	
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.73E+01	1.38E+01	2.53E-01	3.39E-01	1.79E+00	1.13E+00	-4.50E-01	

Contribution to use of non renewable primary energy resources used as raw material	MJ	7.48E-01	7.09E-01	0*	0*	3.89E-02	0*	-3.37E-04
Contribution to total use of non-renewable primary energy resources	MJ	1.80E+01	1.45E+01	2.53E-01	3.39E-01	1.83E+00	1.13E+00	-4.50E-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	1.55E-01	8.12E-02	2.40E-05	6.15E-05	7.32E-02	2.23E-04	-2.12E-04
Contribution to hazardous waste disposed	kg	7.25E+00	4.81E+00	0*	8.52E-04	2.43E+00	1.24E-02	-6.16E-02
Contribution to non hazardous waste disposed	kg	9.83E-01	7.90E-01	0*	1.46E-02	1.59E-01	1.88E-02	-2.15E-02
Contribution to radioactive waste disposed	kg	5.07E-04	3.83E-04	4.04E-06	1.81E-06	1.17E-04	7.97E-07	-9.85E-06
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	5.48E-03	6.74E-04	0*	7.17E-06	0*	4.80E-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

 $[\]ensuremath{^{\star}}$ 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	1.21E-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 Wiser window / door sensor - CCT591012									
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	2.08E-01	0*	2.08E-01	0*	0*	0*	0*	0*
Contribution to climate change-fossil	kg CO2 eq	2.07E-01	0*	2.07E-01	0*	0*	0*	0*	0*
Contribution to climate change-biogenic	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to climate change-land use and land use change	kg CO2 eq	1.25E-07	0*	1.25E-07	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	1.87E-07	0*	1.87E-07	0*	0*	0*	0*	0*
Contribution to acidification	mol H+ eq	9.37E-04	0*	9.37E-04	0*	0*	0*	0*	0*
Contribution to eutrophication, freshwater	kg P eq	1.09E-04	0*	1.09E-04	0*	0*	0*	0*	0*
Contribution to eutrophication marine	kg N eq	3.26E-04	0*	3.26E-04	0*	0*	0*	0*	0*
Contribution to eutrophication, terrestrial	mol N eq	1.74E-03	0*	1.74E-03	0*	0*	0*	0*	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	6.00E-04	0*	6.00E-04	0*	0*	0*	0*	0*
Contribution to resource use, minerals and metals	kg Sb eq	5.01E-06	0*	5.01E-06	0*	0*	0*	0*	0*
Contribution to resource use, fossils	MJ	1.83E+00	0*	1.83E+00	0*	0*	0*	0*	0*
Contribution to water use	m3 eq	3.14E+00	0*	3.14E+00	0*	0*	0*	0*	0*

Inventory flows Indicators	Wiser window / door sensor - CCT591012								
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	6.55E-02	0*	6.55E-02	0*	0*	0*	0*	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	5.14E-03	0*	5.14E-03	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	7.06E-02	0*	7.06E-02	0*	0*	0*	0*	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.79E+00	0*	1.79E+00	0*	0*	0*	0*	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	3.89E-02	0*	3.89E-02	0*	0*	0*	0*	0*

Contribution to total use of non-renewable primary energy resources	MJ	1.83E+00	0*	1.83E+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	7.32E-02	0*	7.32E-02	0*	0*	0*	0*	0*
Contribution to hazardous waste disposed	kg	2.43E+00	0*	2.43E+00	0*	0*	0*	0*	0*
Contribution to non hazardous waste disposed	kg	1.59E-01	0*	1.59E-01	0*	0*	0*	0*	0*
Contribution to radioactive waste disposed	kg	1.17E-04	0*	1.17E-04	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-01303-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	www.pep-ecopassport.org							
Date of issue	12-2024	Validity period	5 years							
Independent verification of the	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 Orgalet (DDemain)										

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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