## **Product Environmental Profile**

#### **Miluz Switch**

# as referent product for : All Switch in Miluz Range







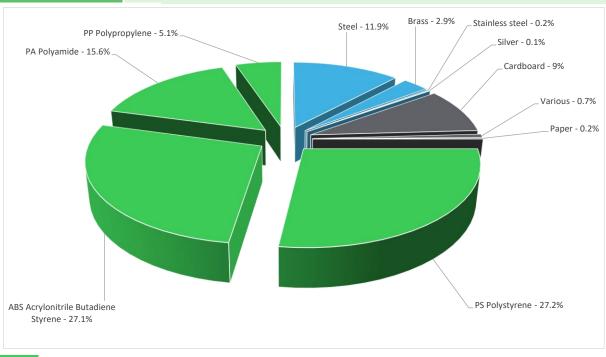
### General information

Reference product	Miluz Switch - S3B62010						
Description of the product	The main purpose of the MILUZ P1 SW 10A screw white is to provide solution for infrastructures for light management on the residential standard segment.						
Description of the range	The indicators values of this Miluz Single Pole One Way Switch can be extrapolated, based on the Mass and Energy values of the products, for other Miluz Switch range of products ( whatever the earth type / finsihing / colours / accesories included or not /).						
	The environmental impacts of this reference product are representative of the impacts of the other products of the range which are developed with a similar technology.						
Functional unit	Establish, support and interrupt for 20 years rated currents in normal conditions of circuit characterized by the rated current [In] 10A, for the rated operational voltage [Ue] 250V for a specified time with IP2X in accordance with the standard IEC 60529 and IK04 protection Degree of protection against external mechanical impacts in accordance with the standard IEC 62262. The product is in Compliance with IEC 60669-1 standard.						

### Constituent materials

Reference product mass

60.5 g including the product and its packaging



Plastics 75.0%
Metals 15.1%
Others 9.9%

#### Substance assessment

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

### (19) Additional environmental information

Recyclability potential:

Recyclability potential:

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).

### **P** Environmental impacts

Reference service life time	20 years								
Product category	Switches								
Installation elements	This product does not require any special componets during installation								
Use scenario	Full load is 0.35 W power loses. The product is used 30% of the time ( see PSR ) with a power use of 0.0875 W for 20 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	Brazil								
Energy model wood	[A1 - A3]	[A5]	[B6]	[C1 - C4]					
Energy model used	Electricity Mix; Production mix; Low voltage; BR	Electricity Mix; Production mix; Low voltage; BR	Electricity Mix; Production mix; Low voltage; BR						

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			Miluz Switch - S3B62010					
		Total	Manufacturing	Distribution	Installation	Use	End of Life	Benefits
Impact indicators	Unit		[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	1.34E+00	2.87E-01	1.01E-01	1.08E-02	8.84E-01	5.79E-02	-4.93E-02
Contribution to climate change-fossil	kg CO2 eq	1.33E+00	2.81E-01	1.01E-01	1.03E-02	8.83E-01	5.79E-02	-4.92E-02
Contribution to climate change-biogenic	kg CO2 eq	7.43E-03	5.57E-03	0*	4.69E-04	1.39E-03	0*	-1.48E-04
Contribution to climate change-land use and land use change	kg CO2 eq	1.66E-08	0*	0*	1.66E-08	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.04E-07	1.05E-08	8.90E-08	7.88E-10	3.20E-09	4.31E-10	-9.19E-09
Contribution to acidification	mol H+ eq	8.64E-03	1.26E-03	4.38E-04	4.38E-05	6.79E-03	1.13E-04	-2.76E-04
Contribution to eutrophication, freshwater	kg (PO4)³- eq	4.11E-06	3.29E-06	1.18E-08	1.51E-07	6.56E-07	5.26E-09	-2.13E-07
Contribution to eutrophication marine	kg N eq	1.08E-03	2.01E-04	2.01E-04	1.17E-05	6.43E-04	2.41E-05	-2.34E-05
Contribution to eutrophication, terrestrial	mol N eq	2.18E-02	2.06E-03	2.18E-03	9.21E-05	1.72E-02	2.72E-04	-3.00E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.36E-03	6.77E-04	7.16E-04	2.49E-05	1.85E-03	8.75E-05	-1.24E-04
Contribution to resource use, minerals and metals	kg Sb eq	4.92E-05	4.91E-05	0*	0*	1.17E-07	0*	-1.47E-05
Contribution to resource use, fossils	MJ	2.36E+01	5.91E+00	1.22E+00	1.07E-01	1.44E+01	1.89E+00	-1.27E+00
Contribution to water use	m3 eq	1.38E-01	8.35E-02	5.12E-03	8.69E-03	2.88E-02	1.22E-02	-2.41E-02

Additional indicators for the French regulation are available as well

Inventory flows Indicators			Miluz Switch - S3B62010					
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Benefits
inventory nows			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to use of renewable primary energy excludi renewable primary energy used as raw material	ng MJ	2.25E+01	1.18E-01	0*	1.10E-02	2.24E+01	0*	-4.86E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	3.43E-02	3.43E-02	0*	0*	0*	0*	6.31E-02
Contribution to total use of renewable primary energy resources	MJ	2.26E+01	1.53E-01	0*	1.10E-02	2.24E+01	0*	1.44E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.18E+01	4.10E+00	1.22E+00	1.07E-01	1.44E+01	1.89E+00	-1.13E+00

Contribution to use of non renewable primary energy resources used as raw material	MJ	1.81E+00	1.81E+00	0*	0*	0*	0*	-1.41E-01
Contribution to total use of non-renewable primary energy resources	MJ	2.36E+01	5.91E+00	1.22E+00	1.07E-01	1.44E+01	1.89E+00	-1.27E+00
Contribution to use of secondary material	kg	6.65E-03	6.65E-03	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	3.22E-03	1.94E-03	1.19E-04	2.02E-04	6.70E-04	2.85E-04	-5.62E-04
Contribution to hazardous waste disposed	kg	1.09E+00	1.00E+00	0*	1.21E-04	1.49E-02	6.71E-02	-1.16E+00
Contribution to non hazardous waste disposed	kg	4.20E-01	2.35E-01	1.03E-04	3.33E-02	1.41E-01	1.01E-02	5.35E-02
Contribution to radioactive waste disposed	kg	1.70E-04	1.19E-04	2.01E-05	4.62E-06	2.58E-05	6.70E-07	-1.24E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.72E-02	0*	0*	8.52E-03	0*	8.68E-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

<sup>\*</sup> 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 ISO14044.

The majority of environmental indicators are most significantly impacted by the Use phase. ADPe is the hotspots in the manufacturing phase that is most affected by Silver part (76%)

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply can be provided upon request

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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Date of issue	05/2023	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 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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