

# Product Environmental Profile

## MILUZ ED 2-WAY SWITCH SCREWLESS





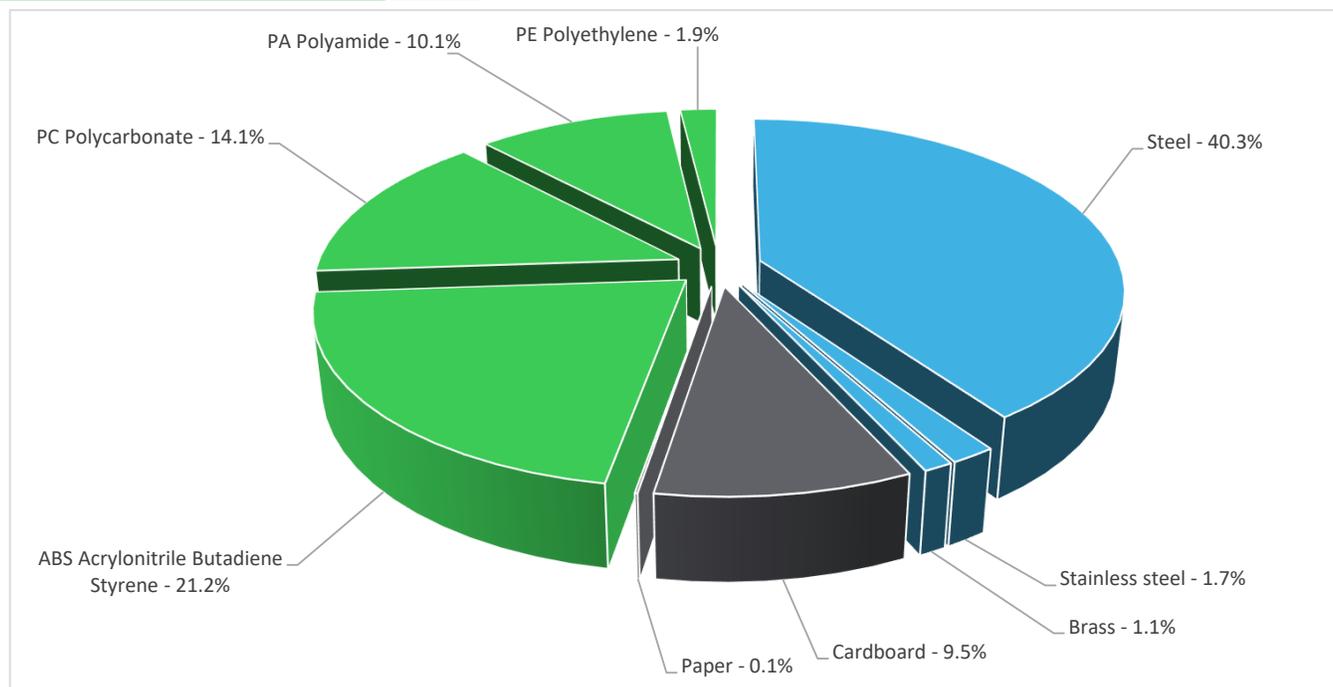
## General information

<b>Representative product</b>	MILUZ ED 2-WAY SWITCH SCREWLESS - WDE012S06
<b>Description of the product</b>	The main function of Miluz ED switch is to establish, support and interrupt current in normal conditions.
<b>Functional unit</b>	To establish, support and interrupt for 20 years rated currents in normal conditions of circuit characterized by the current 10A, for the operating voltage 250V for a specified time with EN 60669-1 standards.



## Constituent materials

**Reference product mass** 80.3 g including the product, its packaging and additional elements and accessories



Plastics	47.3%
Metals	43.1%
Others	9.6%



## Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) 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) as mentioned in the Directive

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this 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](http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium_page)



## Additional environmental information

The MILUZ ED 2-WAY SWITCH SCREWLESS presents the following relevant environmental aspects

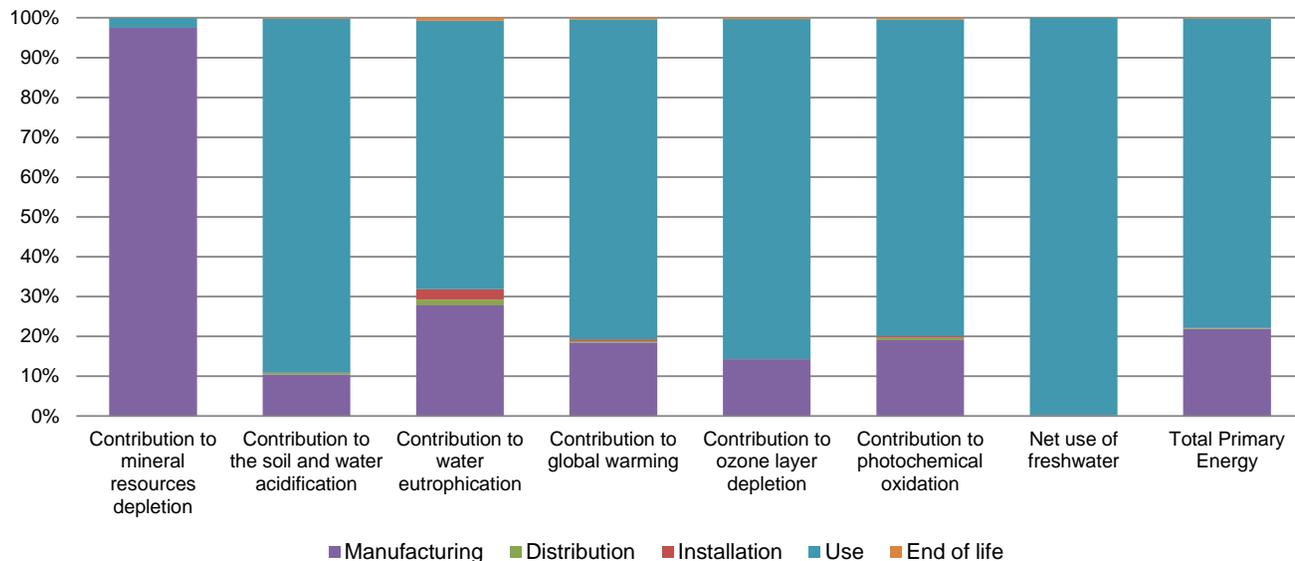
<b>Manufacturing</b>	Manufactured at a production site complying with the regulations
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 9.3 g, consisting of Cardboard (82.7%), PE film (16.22%), Paper (1.08%) Product distribution optimised by setting up local distribution centres
<b>Installation</b>	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials is accounted during the installation phase (including transport to disposal).
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process.  Recyclability potential: <b>63%</b> Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).



## Environmental impacts

<b>Reference life time</b>	20 years			
<b>Product category</b>	Switches			
<b>Installation elements</b>	No special components needed			
<b>Use scenario</b>	Load rate: 50% of In Use time rate: 30% of RLT			
<b>Geographical representativeness</b>	Europe			
<b>Technological representativeness</b>	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.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Manufacturing plant: Günsan-Istanbul/Turkey	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		MILUZ ED 2-WAY SWITCH SCREWLESS - WDE012S06					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	7.06E-06	6.88E-06	0*	0*	1.78E-07	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	9.64E-03	1.00E-03	4.73E-05	0*	8.57E-03	2.11E-05
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	7.67E-04	2.13E-04	1.09E-05	2.06E-05	5.17E-04	5.67E-06
Contribution to global warming	kg CO <sub>2</sub> eq	2.56E+00	4.71E-01	1.04E-02	1.07E-02	2.05E+00	1.01E-02
Contribution to ozone layer depletion	kg CFC11 eq	1.57E-07	2.23E-08	2.10E-11	2.66E-11	1.34E-07	4.66E-10
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	5.91E-04	1.13E-04	3.38E-06	2.55E-06	4.71E-04	2.23E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m <sup>3</sup>	7.46E+00	1.84E-02	0*	0*	7.45E+00	0*
Total Primary Energy	MJ	5.28E+01	1.16E+01	1.46E-01	0*	4.10E+01	1.04E-01



Optional indicators		MILUZ ED 2-WAY SWITCH SCREWLESS - WDE012S06						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to fossil resources depletion	MJ	3.04E+01	6.80E+00	1.46E-01	0*	2.33E+01	9.46E-02	
Contribution to air pollution	m³	1.36E+02	4.61E+01	4.41E-01	3.85E-02	8.84E+01	7.45E-01	
Contribution to water pollution	m³	2.06E+02	1.19E+02	1.70E+00	5.71E-01	8.47E+01	8.73E-01	
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Use of secondary material	kg	1.91E-02	1.91E-02	0*	0*	0*	0*	
Total use of renewable primary energy resources	MJ	5.45E+00	2.30E-01	0*	0*	5.22E+00	0*	
Total use of non-renewable primary energy resources	MJ	4.74E+01	1.13E+01	1.46E-01	0*	3.58E+01	1.04E-01	
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	5.44E+00	2.22E-01	0*	0*	5.22E+00	0*	
Use of renewable primary energy resources used as raw material	MJ	7.77E-03	7.77E-03	0*	0*	0*	0*	
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4.59E+01	9.85E+00	1.46E-01	0*	3.58E+01	1.04E-01	
Use of non renewable primary energy resources used as raw material	MJ	1.48E+00	1.48E+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	5.49E-01	4.50E-01	0*	0*	1.07E-03	9.73E-02	
Non hazardous waste disposed	kg	7.78E+00	1.10E-01	0*	7.77E-03	7.66E+00	0*	
Radioactive waste disposed	kg	5.20E-03	8.13E-05	0*	0*	5.11E-03	0*	
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Materials for recycling	kg	5.26E-02	7.83E-03	0*	0*	0*	4.48E-02	
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	
Materials for energy recovery	kg	2.64E-03	0*	0*	1.50E-03	0*	1.14E-03	
Exported Energy	MJ	5.96E-05	2.30E-06	0*	5.73E-05	0*	0*	

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

Life cycle assessment performed with EIME version 5.9.3, database version 2020-12 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority 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.

<i>Registration number</i>	ENVPEP2205003_V1-EN	<i>Drafting rules</i>	PCR-ed3-EN-2015 04 02
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<i>Validity period</i>	5 years	<i>Information and reference documents</i>	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
<i>Independent verification of the declaration and data</i>			
Internal	X	External	
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »</i>			

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