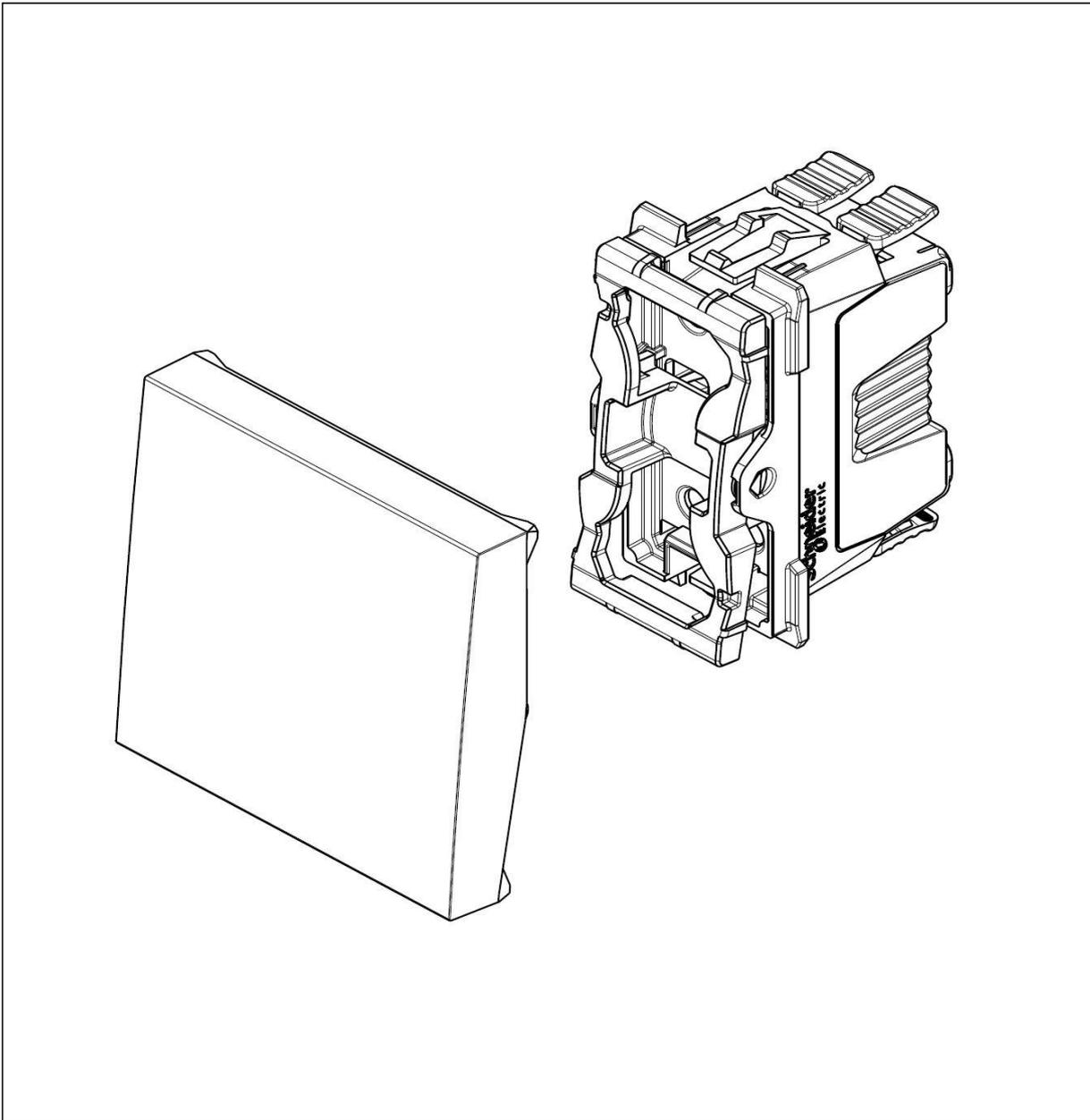


Product Environmental Profile

New Unica - Two-way switch - 10A - 2modules

As referent product for :

All New Unica Switches

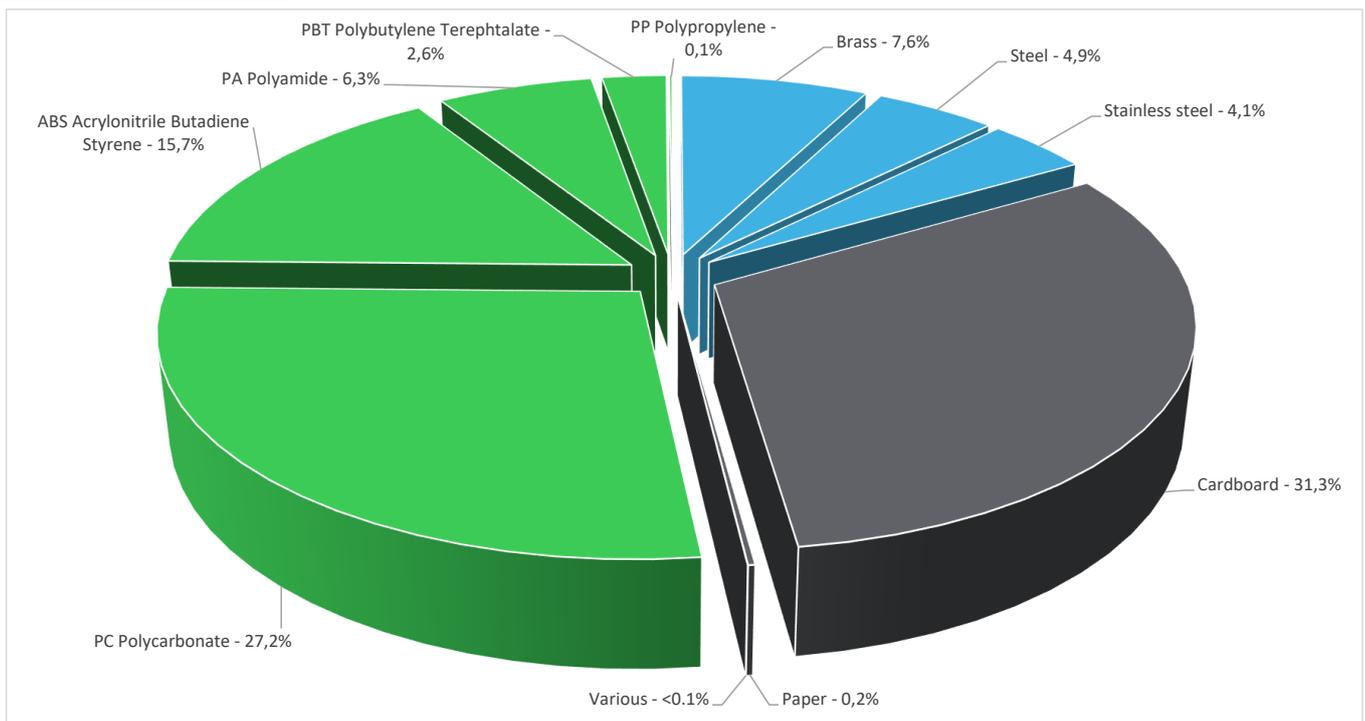


General information

Reference product	New Unica - Two-way switch - 10A - 2modules - NU320318
Description of the product	New Unica Two-way switch is a product to give the control for a lighting circuit in an electricity network. This product is provided with a white two modules rocker.
Description of the range	<p>The indicators values of the New Unica Switch can be extrapolated for all other Unica Switches: One-way, two-way, two-way with neutral and double-one way switches also card and roller blind pushbutton switches with and without indication or location lamp. It contains 10 or 16 A switches with or without plastic/metal fixing frames and one or two rockers with plastic claws. Switches have a screw or screwless connection type.</p> <p>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.</p>
Functional unit	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 IP21 protection in accordance with the standard IEC 60529 and IK04 in accordance with the standard IEC 62262.

Constituent materials

Reference product mass	29,7 g	including the product, its packaging and additional elements and accessories
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Plastics	51,9%
Others	31,5%
Metals	16,6%

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

End Of Life	Recyclability potential:	24%	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).
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Environmental impacts

Reference service life time	20 years		
Product category	Switches		
Installation elements	The disposal of the packaging materials are accounted during the installation phase (including transport to disposal).		
Use scenario	The product is in active mode 30% of the time with a power use of 0,35 W (with 50% of the load rate 10A = 5 A) and in off mode 70% of the time with a power use of 0 W, for 20 years		
Technological representativeness	The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCAEIME in this case) are Similar and representative of the actual type of technologies used to make the product		
Geographical representativeness	Europe		
Energy model used	[A1 - A3]	[A5]	[B6]
	Electricity Mix; Production mix; Low voltage; ES	Electricity Mix; Production mix; Low voltage; FR	Electricity Mix; Production mix; Low voltage; FR
			[C1 - C4]
			Electricity Mix; Production mix; Low voltage; FR

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		New Unica - Two-way switch - 10A - 2modules - NU320318						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Loads and Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	
Contribution to climate change	kg CO2 eq	5,33E-01	1,57E-01	3,88E-03	1,71E-02	3,07E-01	4,72E-02	-4,28E-02
Contribution to climate change-fossil	kg CO2 eq	5,29E-01	1,55E-01	3,88E-03	1,63E-02	3,06E-01	4,72E-02	-4,20E-02
Contribution to climate change-biogenic	kg CO2 eq	4,38E-03	2,83E-03	0*	7,58E-04	7,92E-04	0*	-7,49E-04
Contribution to climate change-land use and land use change	kg CO2 eq	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to ozone depletion	kg CFC-11 eq	1,49E-08	9,04E-09	5,95E-12	1,13E-09	4,52E-09	1,82E-10	-5,80E-09
Contribution to acidification	mol H+ eq	2,88E-03	9,47E-04	2,50E-05	6,77E-05	1,78E-03	6,02E-05	-2,21E-04
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	1,56E-05	8,34E-07	0*	1,23E-07	1,46E-05	2,81E-09	-2,57E-07
Contribution to eutrophication marine	kg N eq	4,49E-04	1,63E-04	1,17E-05	1,79E-05	2,45E-04	1,22E-05	-3,75E-05
Contribution to eutrophication, terrestrial	mol N eq	5,61E-03	1,68E-03	1,29E-04	1,35E-04	3,52E-03	1,42E-04	-3,51E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	1,37E-03	5,30E-04	3,25E-05	3,61E-05	7,25E-04	4,50E-05	-1,07E-04
Contribution to resource use, minerals and metals	kg Sb eq	7,19E-05	7,18E-05	0*	0*	1,45E-07	0*	-4,74E-06
Contribution to resource use, fossils	MJ	6,31E+01	2,84E+00	5,41E-02	1,77E-01	5,90E+01	1,04E+00	-5,74E-01
Contribution to water use	m3 eq	7,99E-02	4,22E-02	1,47E-05	7,28E-03	2,23E-02	8,15E-03	-2,18E-02

Inventory flows Indicators		New Unica - Two-way switch - 10A - 2modules - NU320318						
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Loads and Benefits
			[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	5,42E+00	0*	0*	1,27E-02	5,46E+00	0*	9,81E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	1,86E-01	1,86E-01	0*	0*	0*	0*	-1,69E-01
Contribution to total use of renewable primary energy resources	MJ	5,61E+00	1,42E-01	0*	1,27E-02	5,46E+00	0*	-7,05E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6,26E+01	2,35E+00	5,41E-02	1,77E-01	5,90E+01	1,04E+00	-5,74E-01
Contribution to use of non renewable primary energy resources used as raw material	MJ	4,89E-01	4,89E-01	0*	0*	0*	0*	0,00E+00
Contribution to total use of non-renewable primary energy resources	MJ	6,31E+01	2,84E+00	5,41E-02	1,77E-01	5,90E+01	1,04E+00	-5,74E-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	1,86E-03	9,82E-04	3,43E-07	1,70E-04	5,18E-04	1,90E-04	-5,09E-04
Contribution to hazardous waste disposed	kg	4,44E-01	4,14E-01	0*	2,02E-04	4,58E-03	2,51E-02	-3,65E-01
Contribution to non hazardous waste disposed	kg	4,62E-01	3,66E-01	1,36E-04	5,55E-02	2,95E-02	1,09E-02	-2,56E-01
Contribution to radioactive waste disposed	kg	9,33E-05	7,29E-05	9,70E-08	7,45E-06	1,24E-05	4,88E-07	-1,80E-05
Contribution to components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*	0,00E+00
Contribution to materials for recycling	kg	1,42E-02	0*	0*	9,37E-03	0*	4,83E-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 ISO14044 and the EF3.0 method of calculation.

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>

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.

<i>Registration number :</i>	SCHN-01110-V02.01-EN	<i>Drafting rules</i>	PEP-PCR-ed4-2021 09 06
<i>Verifier accreditation N°</i>	VH48	<i>Supplemented by</i>	PSR-0005-ed2-2016 03 29
<i>Date of issue</i>	01/2024	<i>Information and reference documents</i>	www.pep-ecopassport.org
		<i>Validity period</i>	5 years
<i>Independent verification of the declaration and data, in compliance with ISO 14025 : 2010</i>			
<i>Internal</i>	<i>External</i>	X	
<i>The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)</i>			
<i>PEP are compliant with XP C08-100-1 :2016 or EN 50693:2019</i>			
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »</i>			



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