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# **Product Environmental Profile**

NILOÉ™ Switches 10AX





#### ■ LEGRAND'S ENVIRONMENTAL COMMITMENTS

- Incorporate environmental management into our industrial sites
- Of all Legrand sites worldwide, over 85% are ISO 14001-certified (sites belonging to the Group for more than five years).
- Offer our customers environmentally friendly solutions

Develop innovative solutions to help our customers design more energy efficient, better managed and more environmentally friendly installations.

• Involve the environment in product design and provide informations in compliance with ISO 14025 Reduce the environmental impact of products over their whole life cycle.

Provide our customers with all relevant information (composition, consumption, end of life, etc.).



#### ■ REFERENCE PRODUCT

Function		ted current 10 AX and rated voltage 250 V, for a wall-mounted te use scenario, and for the reference service life of the product of 20
Reference Product		logested.
	Cat.No NP2110WH	Cat.No NP111WH
	1-way switch 10AX automatic terminal	with 1 gang plate

The company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in the document are for guidance and cannot be held binding on the company.



#### ■ PRODUCTS CONCERNED ■

The environmental data is representative of the following products:

Catalogue Num	bers					
1-way switch	2-way switch	1 gang plate	2 gang plate	3 gang plate	4 gang plate	5 gang plate
• NP2110WH	• NP2210BK	• NP111WH	• NP112WH	• NP113WH	• NP114WH	• NP115WH
<ul> <li>NP2110BK</li> </ul>	• NP2210MG	• NP111BK	• NP112BK	• NP113BK	• NP114BK	• NP115BK
• NP2110MG	• NP2210WH	• NP111MG	• NP112MG	• NP113MG	• NP114MG	• NP115MG
• NP2120BK	• NP2220BK	• NP111DB	• NP112DB	• NP113DB	• NP114DB	• NP115DB
<ul> <li>NP2120MG</li> </ul>	• NP2220MG	• NP111GR	• NP112GR	• NP113GR	• NP114GR	• NP115GR
<ul> <li>NP2120WH</li> </ul>	<ul> <li>NP2220WH</li> </ul>	• NP111MA	• NP112MA	<ul> <li>NP113MA</li> </ul>	• NP114MA	• NP115MA
• 8 631 01B	• 8 631 06B	• NP1110L	• NP112OL	• NP113OL	• NP114OL	• NP115OL
• 8 631 05B	• 8 631 08B	• 8 631 91	• 8 631 92	• 8 631 93	• 8 631 94	• 8 631 95
• 8 631 03B	• 8 633 06B	• 8 633 91	• 8 633 92	• 8 633 93	• 8 633 94	• 8 633 95
• 8 633 01B	• 8 633 08B	• 8 634 91	• 8 634 92	• 8 634 93	• 8 634 94	• 8 634 95
• 8 633 05B	• 8 635 06B	• 8 635 91	• 8 635 92	• 8 635 93	• 8 635 94	• 8 635 95
• 8 635 01B	• 8 635 08B	• 8 630 91	• 8 630 92	• 8 630 93	• 8 630 94	• 8 630 95
• 8 635 05B		• 8 632 91	• 8 632 92	• 8 632 93	• 8 632 94	• 8 632 95
		• 8 636 91	• 8 636 92	• 8 636 93	• 8 636 94	• 8 636 95
		• 8 637 91	• 8 637 92	• 8 637 93	• 8 637 94	• 8 637 95
		• 8 638 91	• 8 638 92	• 8 638 93	• 8 638 94	• 8 638 95
		• 8 639 91	• 8 639 92	• 8 639 93	• 8 639 94	• 8 639 95





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#### **■ CONSTITUENT MATERIALS I**

This Reference Product contains no substances prohibited by the regulations applicable at the time of its introduction to the market. It respects the restrictions on use of hazardous substances as defined in the RoHS directive 2011/65/EU amended by delegated directive (EU) 2015/863, and its amendment 2017/2102/EU.

Total weight of	
iotai weigiit oi	
Reference Product	0.07 kg (all packaging included)
Helefelice i foduct	olor kg (all packaging included)

		Product alone weight 0.04	l kg		
Plastics as % of weight		Metals as % of weight	Other as % of weight		
PC	28.0 %	Steel	7.9 %		
ABS	23.6 %	Copper and copper alloys	4.2 %		
PS	<0.1 %	Silver alloys	<0.1 %		
		Other metals	<0.1 %		

Packaging (alone) : 0.03 kg							
PE	0.2 %		Cardboard	20.6 %			
			Wood	12.5 %			
			Paper	2.9 %			

Total plastics : 0.03 kg	51.8 %	Total metals : 0.01 kg	12.1 %	Total others : 0.03 kg	36.1 %

At the date of edition of this document, the content of recycled material(s) is:

- Product alone (excluding packaging): 51% by mass
- Packaging only: 36% by mass



## ■ MANUFACTURE ■

This Reference Product comes from sites that have received ISO14001 certification. The final assembly site is located at Hungary.



### ■ DISTRIBUTION ■

Products are distributed from logistics centres located with a view to optimize transport efficiency. The Reference Product is therefore transported over an average distance of 1325 km by road from our warehouse to the local point of distribution into the market in Europe.

Packaging is compliant with european directive 2004/12/EU concerning packaging and packaging waste.



## ■ INSTALLATION ■

For the installation of the product, only standard tools are needed.



Under normal conditions of use, this product requires no servicing, no maintenance or additional products.



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#### ■ END OF LIFE I

The product end of life factors are taken into account during the design phase. Dismantling and sorting of components or materials is made as easy as possible with a view to recycling or failing that, another form of reuse. This product falls within the scope of the WEEE directive (2012/19/EU). Therefore it must be processed through local WEEE recycling/recovery channels.

## • Extended producer responsability:

The sale of this product is subject to a contribution to eco-organisations in each country responsible for managing end of life products in the filed of application of the European Waste Electronic and Electrical Equipment Directive.



## ■ ENVIRONMENTAL IMPACTS ■

The evaluation of environmental impacts examines the stages of the Reference Product life cycle: manufacturing, distribution, installation, use and end of life. It is representative of products marketed and used in Europe.

The datasets collected in this PEP are representative of the year 2025.

For each phase, the following modelling elements were taken in account:

	Manufacture A1-A3	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.
	Distribution A4	Transport between the last Group distribution centre and an average delivery point in the sales area.
n Limit	Installation A5	The end of life of the packaging.
System	Use B1-B7	<ul> <li>Product category: Switches Wall-mounted § 3.7 -PSR-0005-ed3.1-EN-2023 12 08.</li> <li>Use scenario: non-continuous operation for 20 years at 10% of rated load, during 30% of the time. This modelling duration does not constitute a minimum durability requirement.</li> <li>Energy model: Electricity Mix_Low voltage_2020_Europe_EU-27 - 2020.</li> </ul>
	End of life C1-C4	Choice of end-of-life by default model for PCR-ed4-EN-2021 09 06.
D Mc	odule	Module D is calculated according to PCR-ed4-EN-2021 09 06 based on the materials recycled and the modelled end-of-life scenario.  It expresses the net benefits and burdens beyond the boundaries of the system, and are not to be included in the life cycle totals.
	vare and data- used	EIME V6 & its database 2024-06-11 The set of indicators used is Indicators for PEF EF 3.1 (Compliance: PEP ed.4, EN15804+A2) v2.0

Unless otherwise indicated the modelling energetic mix are those integrated in the data modules used from the aformentioned database.



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#### **■ ENVIRONMENTAL IMPACTS**

	Total	Life Cycle	Manufacturing	Distribution A4	Installation	Use <sup>(1)</sup>			End of Life
			A1-A3		A5	Total B1-B7	B2	В6	C1-C4
Climate change - total	3.63E-01	kg CO <sub>2</sub> eq.	1.39E-01	4.68E-03	4.78E-02	1.37E-01	0.00E+00	1.37E-01	3.46E-02
Climate change - fossil fuels	3.59E-01	kg CO <sub>2</sub> eq.	1.74E-01	4.68E-03	9.21E-03	1.37E-01	0.00E+00	1.37E-01	3.42E-02
Climate change - biogenics	4.14E-03	kg CO <sub>2</sub> eq.	-3.51E-02	0.00E+00	3.86E-02	2.53E-04	0.00E+00	2.53E-04	3.91E-04
Climate change - land use and land use transformation	7.09E-06	kg CO <sub>2</sub> eq.	7.08E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.05E-09
Ozone depletion	1.10E-08	kg CFC-11 eq.	8.67E-09	7.19E-12	3.17E-10	6.65E-10	0.00E+00	6.65E-10	1.34E-09
Acidification (AP)	2.24E-03	mole of H+ eq.	1.23E-03	2.97E-05	5.43E-05	7.03E-04	0.00E+00	7.03E-04	2.22E-04
Freshwater eutrophication	1.63E-05	kg P eq.	4.49E-06	1.76E-09	7.30E-09	3.61E-07	0.00E+00	3.61E-07	1.14E-05
Marine aquatic eutrophication	3.05E-04	kg of N eq.	1.45E-04	1.39E-05	1.31E-05	8.57E-05	0.00E+00	8.57E-05	4.70E-05
Terrestrial eutrophication	3.90E-03	mole of N eq.	1.60E-03	1.53E-04	1.72E-04	1.38E-03	0.00E+00	1.38E-03	5.92E-04
Photochemical ozone formation	1.03E-03	kg NMVOC eq.	5.38E-04	3.85E-05	3.70E-05	2.70E-04	0.00E+00	2.70E-04	1.44E-04
Depletion of abiotic resources - elements	6.84E-05	kg Sb eq.	6.80E-05	0*	0*	4.86E-08	0.00E+00	4.86E-08	3.72E-07
Depletion of abiotic resources - fossil fuels	1.03E+01	МЛ	5.30E+00	6.54E-02	1.71E-01	3.47E+00	0.00E+00	3.47E+00	1.32E+00
Water requirement	1.06E-01	m³ deprivation worldwide eq.	7.93E-02	1.78E-05	3.84E-04	1.05E-02	0.00E+00	1.05E-02	1.56E-02
Emission of fine particles	1.61E-08	incidence of diseases	8.49E-09	2.42E-10	3.77E-10	5.66E-09	0.00E+00	5.66E-09	1.37E-09

3.73E-11
-1.85E-04
5.13E-07
3.10E-05
2.71E-04
5.77E-05
-2.59E-06
3.19E-01

-1.25E-09

Module D 2.49E-02

4.13E-02

-1.64E-02

2.01E-05

PEP ecopassport n° LGRP-02121-V01.01-EN

<sup>\*</sup>Represents less than 0.01% of the total life cycle of the reference flow

<sup>(1)</sup> For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column



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Module D
-4.66E-01
7.12E-01
2.09E-09
-3.57E-09

5.62E-02

1.39E-02

2.30E-01

2.44E-01

-1.15E-02

3.30E-01

3.19E-01

	Total I	Life Cycle	Manufacturing	Distribution	Installation	Use <sup>(1)</sup>			End of Life	
			A1-A3	A4	A5	Total B1-B7	B2	В6	C1-C4	
Ionizing radiation, human health	1.49E+00	kBq of U235 eq.	1.28E+00	0*	3.86E-03	1.97E-01	0.00E+00	1.97E-01	8.32E-03	
Ecotoxicity (fresh water)	3.87E+00	CTUe	2.53E+00	3.07E-03	2.16E-01	2.59E-01	0.00E+00	2.59E-01	8.61E-01	
Human toxicity, carcinogenic effects	4.39E-08	CTUh	4.39E-08	0*	0*	1.73E-11	0.00E+00	1.73E-11	1.79E-11	
Human toxicity, non-carcinogenic effects	1.56E-08	CTUh	1.39E-08	1.59E-12	6.52E-11	4.12E-10	0.00E+00	4.12E-10	1.20E-09	
Impacts related to land use/soil quality	6.98E-02	-	3.12E-02	0.00E+00	1.80E-04	3.80E-03	0.00E+00	3.80E-03	3.47E-02	
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	1.07E+00	МЈ	1.10E-01	0*	1.29E-02	9.17E-01	0.00E+00	9.17E-01	3.23E-02	
Use of renewable primary energy resources used as raw materials	2.86E-01	МЈ	2.86E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.36E+00	мЈ	3.96E-01	0*	1.29E-02	9.17E-01	0.00E+00	9.17E-01	3.23E-02	
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	9.44E+00	мЈ	4.42E+00	6.54E-02	1.71E-01	3.47E+00	0.00E+00	3.47E+00	1.32E+00	
Use of non-renewable primary energy resources used as raw materials	8.86E-01	МЈ	8.86E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.03E+01	MJ	5.30E+00	6.54E-02	1.71E-01	3.47E+00	0.00E+00	3.47E+00	1.32E+00	

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<sup>\*</sup>Represents less than 0.01% of the total life cycle of the reference flow

<sup>(1)</sup> For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column



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	Total	ife Cycle	Manufacturing	Distribution	Installation	Use <sup>(1)</sup>			End of Life
	Total Life Cycle		A1-A3	A4	A5	Total B1-B7	B2	В6	C1-C4
Use of secondary materials	3.14E-02	kg	3.14E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	0.00E+00	МЈ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	2.48E-03	m³	1.85E-03	4.15E-07	1.49E-05	2.47E-04	0.00E+00	2.47E-04	3.72E-04
Hazardous waste disposed of	6.13E-01	kg	5.38E-01	0.00E+00	9.44E-03	6.02E-03	0.00E+00	6.02E-03	5.93E-02
Non-hazardous waste disposed of	7.80E-02	kg	5.03E-02	1.65E-04	1.33E-03	2.32E-02	0.00E+00	2.32E-02	2.99E-03
Radioactive waste disposed of	3.64E-05	kg	2.90E-05	1.17E-07	5.49E-07	5.32E-06	0.00E+00	5.32E-06	1.42E-06
Components for re-use	0.00E+00	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	1.19E-02	kg	2.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.54E-03
Materials for energy recovery	0.00E+00	MJ by energy vector	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of primary energy during the life cycle	1.17E+01	MJ	5.70E+00	6.55E-02	1.84E-01	4.38E+00	0.00E+00	4.38E+00	1.35E+00

Module D
0.00E+00
0.00E+00
0.00E+00
-1.75E-04
-2.33E-01
4.45E-02
2.27E-05
0.00E+00
0.00E+00
0.00E+00
0.00E+00
5.63E-01

Biogenic carbon content of the product	0.00E+00	kg of C	0.00E+00
Biogenic carbon content of the associated packaging	1.18E-02	kg of C	1.18E-02

<sup>\*</sup>Represents less than 0.01% of the total life cycle of the reference flow

For all products concerned (see § «products concerned»), take these impacts values.

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<sup>(1)</sup> For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table. In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column. The values of the indicators defined in the PCR-ed4-EN-2021 09 06 are available in the digital database of pep-ecopassport.org website.





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The environmental impacts are calculated for a configuration composed by a 1-way switch and a plate.

For configurations covered by the PEP other than the Reference Product, the environmental impacts of each phase of the lifecycle are obtained by applying the following coefficients on those of the Reference Product.

For the multi-gang configurations, the full environmental impacts of the Reference Product have to be multiplied by the number of installed products.

Coefficient of extrapolation of environnemental indicators							
	total Life Cycle	Manufactu- ring	Distribution	Installation	Use	End Of Life	
NP2110WH + NP111WH	1.0	1.0	1.0	1.0	1.0	1.0	
NP2110BK + NP111BK	1.0	1.0	1.0	1.0	1.0	1.0	
NP2110MG + NP111MG	1.0	1.0	1.0	1.0	1.0	1.0	
NP2120BK + NP111BK	1.1	1.1	1.1	1.0	2.0	1.1	
NP2120MG + NP111MG	1.1	1.1	1.1	1.0	2.0	1.1	
NP2120WH + NP111WH	1.1	1.1	1.1	1.0	2.0	1.1	
NP2210BK + NP111BK	1.0	1.0	1.0	1.0	1.2	1.0	
NP2210MG + NP111MG	1.0	1.0	1.0	1.0	1.2	1.0	
NP2210WH + NP111WH	1.0	1.0	1.0	1.0	1.2	1.0	
NP2220BK + NP111BK	1.2	1.1	1.1	1.0	2.4	1.1	
NP2220MG + NP111MG	1.2	1.1	1.1	1.0	2.4	1.1	
NP2220WH + NP111WH	1.2	1.1	1.1	1.0	2.4	1.1	
863101B + 863191	1.0	1.0	1.0	1.0	1.0	1.0	
863105B + 863191	1.2	1.1	1.1	1.0	2.0	1.1	
863103B + 863191	1.3	1.2	1.2	1.0	3.0	1.3	
863106B + 863191	1.1	1.1	1.1	1.0	1.2	1.1	
863108B + 863191	1.2	1.1	1.1	1.0	2.4	1.2	
863301B + 863391	1.0	1.0	1.0	1.0	1.0	1.0	

Registration number: LGRP-02121-V01.01-EN	Drafting rules: PEP-PCR-ed4-EN-2021 09 06 Supplemented by PSR-0005-ed3.1-2023 12 08		
Verifier accreditation N°: VH08	Information and reference documents: www.pep-ecopassport.org		
Date of issue: <b>04-2025</b>	Validity period: 5 years		
Independent verification of the declaration and data, in com	pliance with ISO 14025 : 2006		
Internal ☐ External ☑	PEP		
The PCR review was conducted by a panel of experts chaired by			
PEP are compliant with NF C08-100-1:2016 and EN 50693:201 The elements of the present PEP cannot be compared with ele	9 or NF E38-500 :2022 PASS		
Document in compliance with ISO 14025 : 2006: «Environmenta Type III environmental declarations»			

Environmental data in alignment with EN 15804: 2012 + A2: 2019