



Your usual Sales office www.bticino.com

Product Environmental Profile

Lighting outlet position Nobile series





■ BTICINO'S ENVIRONMENTAL COMMITMENTS I

- 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	Establish, support and interrupt for 20 years rated currents in normal conditions of circuit characterized by the current 15 A, for an operating voltage of 250 V a.c
Reference Product	
	BT-AF2100EB
	1-Way Switch 1P - 15 A - 127 V a.c.

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 I

The environmental data is representative of the following products:

BT-AF2100EB

BT-AF2100EBNA - BT-AF2100EATI - BT-AF2100EANG - BT-AF2101EB - BT-AF2101EBNA - BT-AF2101EATI - BT-AF2101EANG





Your usual Sales office www.bticino.com

Product Environmental Profile

Lighting outlet position Nobile series





■ 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 and its delegated directive 2015/863/EU..

Total weight of Reference Product	92 g (all packaging included)

Plastics as % of weight		Metals as % of weight		Other as % of weight					
Polycarbonate	47,2 %	Steels	7,4 %						
Polypropylene	6,4 %	Copper alloys	2,8 %						
Polyamide	0,2 %	Silver alloys	< 0,1 %						
Other plastics	< 0,1 %	Other metals	< 0,1 %						
	Packaging								
Polyethylene (LDPE)	0,6 %			Paper / cardboard	21,7 %				
				Wood	13,6 %				
Total plastics	54,4 %	Total metals	10,3 %	Total other	35,3%				

Estimated recycled material content: 21 % by mass.



■ MANUFACTURE **■**

This Reference Product comes from sites that have received ISO14001 certification.



■ 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 3500 km by road from our warehouse to the local point of distribution into the South American market.

Packaging is compliant with European directive 2004/12/EU concerning packaging and packaging waste. At their end of life, its recyclability rate is 97 % (in % of packaging weight).



INSTALLATION I

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



USE I

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





Your usual Sales office www.bticino.com

Product Environmental Profile

Lighting outlet position Nobile series





■ END OF LIFE ■

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.

• Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 96 %. This value is based on data collected from a technological channel operating on an industrial basis. It does not pre-validate the effective use of this channel for the end of life of this product.

Separated into:

plastic materials (excluding packaging)
metal materials (excluding packaging)
packaging (all types of materials)
: 35 %



■ 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 from products marketed and used in South America, in compliance with the local current standards.

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

Manufacture	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.			
Distribution	Transport between the last Group distribution centre and an average delivery point in the sales area.			
Installation	The end of life of the packaging.			
Use	 Product category: PSR-0005-ed2-2016 03 29 - § 3.5. Switches Use scenario: non-continuous operation for 20 years at 50% of rated load, during 30% of the time. This modelli duration does not constitute a minimum durability requirement. Energy model: Electricity Mix, Mexico - 2004. 			
End of life	of life The default end of life scenario maximizing the impacts.			
Software and database used	EIME V5 and its database «CODDE-2018-11»			





Product Environmental Profile

Lighting outlet position Nobile series





■ SELECTION OF ENVIRONMENTAL IMPACTS ■

	Total for I	Life cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	.
Global warming	5.47E+00	kgCO ₂ eq.	4.48E-01	8%	1.60E-02	< 1%	1.93E-03	< 1%	5.00E+00	91%	6.55E-03	< 1%
Ozone depletion	1.08E-06	kgCFC-11 eq.	8.29E-08	8%	3.25E-11	< 1%	1.13E-11	< 1%	1.00E-06	92%	1.56E-10	< 1%
Acidification of soils and water	4.83E-03	kgSO ₂ eq.	1.00E-03	21%	7.21E-05	1%	9.12E-06	< 1%	3.72E-03	77%	2.52E-05	< 1%
Water eutrophication	3.31E-03	kg(PO ₄)³- eq.	2.27E-03	68%	1.66E-05	< 1%	7.48E-06	< 1%	9.89E-04	30%	3.01E-05	< 1%
Photochemical ozone formation	9.55E-04	kgC ₂ H ₄ eq.	8.37E-05	9%	5.12E-06	< 1%	6.47E-07	< 1%	8.64E-04	90%	1.96E-06	< 1%
Depletion of abiotic resources - elements	4.44E-05	kgSb eq.	4.44E-05	100%	6.42E-10	< 1%	8.29E-11	< 1%	3.70E-08	< 1%	4.08E-10	< 1%
Total use of primary energy	5.07E+01	MJ	7.92E+00	16%	2.27E-01	< 1%	2.66E-02	< 1%	4.24E+01	84%	7.25E-02	< 1%
Net use of fresh water	4.72E-02	m³	4.26E-02	90%	1.44E-06	< 1%	4.98E-07	< 1%	4.61E-03	10%	5.39E-06	< 1%
Depletion of abiotic resources - fossil fuels	4.22E+01	MJ	5.72E+00	14%	2.25E-01	< 1%	2.59E-02	< 1%	3.62E+01	86%	6.53E-02	< 1%
Water pollution	4.24E+02	m³	1.47E+02	35%	2.64E+00	< 1%	3.01E-01	< 1%	2.74E+02	65%	7.58E-01	< 1%
Air pollution	3.47E+02	m³	3.91E+01	11%	6.58E-01	< 1%	1.90E-01	< 1%	3.06E+02	88%	7.39E-01	< 1%

The values of the 27 impacts defined in the PCR-ed3-EN-2015 04 02 are available in the digital database of pep-ecopassport.org website.

For products covered by the PEP other than the Reference Product, the environmental impacts of each phase of the lifecycle are calculated as follow:

- for the 1-Way switches, they are assimilated to the impacts of the Reference Product;
- for the 2-Way switches, they are obtained by multiplying the impacts of the Reference Product by the following coefficients:

Total	Manufacturing		Distribution	Installation	Use	End of life
All indicators	Depletion of abiotic resources elements	Other indicators	All indicators	All indicators	All indicators	All indicators
2,1	1,8	1,1	1,0	1,0	2,3	1,0

Registration N°: LGRP-01225-V01.01-EN	Drafting rules: PEP-PCR-ed3-EN-2015 04 02 Supplemented by PSR-0005-ed2-2016 03 29			
Verifier accreditation N°: VH02	Information and reference documents : www.pep-ecopassport.org			
Date of issue: 09-2020	Validity period: 5 years			
Independent verification of the declaration and data, in compliar Internal External □	nce with ISO 14025:2010			
The PCR review was conducted by a panel of experts chaired by	Philippe Osset (SOLINNEN)			
PEP are compliant with XP C08-100-1 : 2016 The elements of the present PEP cannot be compared with elem	ents from another program			
Document in compliance with ISO 14025 : 2010: «Environmental declarations»	labels and declarations. Type III environmental			
Environmental data in alignment with EN 15804 : 2012 + A1 : 201	3			