

Product Environmental Profile

Pushbutton lighting outlet position Living Now series



BTICINO'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	Allow, through the product installed in a cover plate with a screws equipped support, the making (by pressure on the control button) and breaking (by the release) of a 250V low voltage circuit at a current of max. 10A. Equipable with backlighting.		
Reference Product			
	BT-KA4803KW	2 x BT-K4950	BT-K4703
	Living Now 3modules cover plate white	Blank plate 1module	3modules support equipped with protection valve and fixing screws
	BT-K4005	2 x BT-KW00	BT-KW01
	Pushbutton 10A 250V 1module, illuminable	Cover for blank plate 1module, white	Illuminable cover 1module, white

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:

BT-KA4803KW	BT-K4950	BT-K4703	BT-K4005	BT-KW00	BT-KW01
BT-KA4803ZW - 3NW - 3DW - 3DA - 3MW - 3KM - 3ZM - 3DM - 3MM - 3KG - 3NG - 3ZG - 3DG				BT-KG00 BT-KM00	BT-KG01 BT-KM01

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■ CONSTITUENT MATERIALS

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.

Total weight of Reference Product		228 g (all packaging included)			
Plastics as % of weight		Metals as % of weight		Other as % of weight	
Polyamide	24,3 %	Steel	2,7 %		
Polycarbonate	13,4 %	Copper alloys	0,8 %		
ABS	6,4 %	Silver alloys	< 0,1 %		
Polyketone	2,3 %				
Other plastics	0,1 %				
Packaging					
Polyethylene	1,9 %			Paper / cardboard	25,4 %
PVC	1,6 %			Wood	21,0 %
Polypropylene	0,1 %				
Total plastics	50,1 %	Total metals	3,5 %	Total other	46,4 %

Estimated recycled material content: 19 % by mass.

For the lighting outlet position with zamak cover plates:

Total weight of Reference Product		288 g (all packaging included)			
Plastics as % of weight		Metals as % of weight		Other as % of weight	
Polyamide	19,3 %	Zamak	23,5 %		
Polycarbonate	7,4 %	Steel	2,1 %		
ABS	4,2 %	Copper alloys	0,6 %		
Polyketone	1,8 %	Silver alloys	< 0,1 %		
Other plastics	0,1 %				
Packaging					
Polyethylene	1,5 %			Paper / cardboard	21,5 %
PVC	1,3 %			Wood	16,7 %
Polypropylene	< 0,1 %				
Total plastics	35,6 %	Total metals	26,2 %	Total other	38,2 %

Estimated recycled material content: 12 % by mass.



■ MANUFACTURE

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



■ DISTRIBUTION

The Group's products are distributed from logistics centres located to optimize transport efficiency. The Reference Product is therefore transported over an average distance of 780 km, essentially by road, representing a marketing in Europe.

Packaging is compliant with European directive 2004/12/EC concerning packaging and packaging waste. At the packaging end of life, its recycling rate is of 91 % (as % of packaging weight).

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INSTALLATION

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



USE

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



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. 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 responsibility:**

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 field of application of the European Waste Electronic and Electrical Equipment Directive.

• **Recyclability rate of the Reference Product:**

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 91 %. 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) : 42 %
- metal materials (excluding packaging) : 4 %
- packaging (all types of materials) : 45 %



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 Europe, 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	<ul style="list-style-type: none"> • Product category: Passive product. • Use scenario: domestic scenario estimated in 10 operations / day of 1 second each one, for 20 years, at 30% of rated load. This modelling duration does not constitute a minimum durability requirement. • Energy model: Electricity Mix, Europe 27 - 2008.
End of life	The default end of life scenario maximizing the impacts.
Software and database used	EIME V5 and its database «CODDE-2018-11»

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SELECTION OF ENVIRONMENTAL IMPACTS

	Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
	Value	Unit	Value	%	Value	%	Value	%	Value	%	Value	%
Global warming	9.99E-01	kgCO ₂ eq.	9.70E-01	97%	8.85E-03	< 1%	6.98E-03	< 1%	2.70E-04	< 1%	1.33E-02	2%
Ozone depletion	6.48E-07	kgCFC-11 eq.	6.47E-07	100%	1.79E-11	< 1%	5.47E-11	< 1%	1.76E-11	< 1%	3.30E-10	< 1%
Acidification of soils and water	1.63E-03	kgSO ₂ eq.	1.51E-03	92%	3.98E-05	2%	3.21E-05	2%	1.13E-06	< 1%	5.09E-05	3%
Water eutrophication	2.09E-03	kg[PO ₄] ³⁻ eq.	1.99E-03	95%	9.14E-06	< 1%	2.58E-05	1%	6.81E-08	< 1%	5.92E-05	3%
Photochemical ozone formation	1.65E-04	kgC ₂ H ₄ eq.	1.56E-04	94%	2.83E-06	2%	2.30E-06	1%	6.20E-08	< 1%	3.97E-06	2%
Depletion of abiotic resources - elements	3.36E-05	kgSb eq.	3.36E-05	100%	3.54E-10	< 1%	3.16E-10	< 1%	2.35E-11	< 1%	8.45E-10	< 1%
Total use of primary energy	1.38E+01	MJ	1.35E+01	98%	1.25E-01	< 1%	9.40E-02	< 1%	5.40E-03	< 1%	1.46E-01	1%
Net use of fresh water	8.71E-02	m ³	8.61E-02	99%	7.92E-07	< 1%	2.21E-06	< 1%	9.80E-04	1%	1.14E-05	< 1%
Depletion of abiotic resources - fossil fuels	1.20E+01	MJ	1.16E+01	97%	1.24E-01	1%	9.77E-02	< 1%	3.07E-03	< 1%	1.89E-01	2%
Water pollution	2.98E+02	m ³	2.94E+02	99%	1.46E+00	< 1%	1.06E+00	< 1%	1.12E-02	< 1%	1.52E+00	< 1%
Air pollution	8.03E+01	m ³	7.77E+01	97%	3.63E-01	< 1%	6.70E-01	< 1%	1.16E-02	< 1%	1.55E+00	2%

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.

The environmental impacts are calculated for a configuration composed by Pushbutton with Cover, two Blank plates with Covers, Support and Cover plate. For products covered by the PEP other than the Reference Product, to obtain the environmental impacts of each phase of the lifecycle:

- for the configurations with different finishing and different plastic Cover plates, the environmental impacts take the same values of those of the Reference Product;
- for the configurations with zamak Cover plates, multiply the environmental impacts of the Reference Product by the following coefficients:

Total			Manufacturing			Distribution	Installation	Use	End of life
Depletion of abiotic resources elements	Air pollution	Other indicators	Depletion of abiotic resources elements	Air pollution	Other indicators	All indicators	All indicators	All indicators	All indicators
2,4	7,3	1,3	2,4	7,5	1,3	1,3	1,0	1,0	1,2

Registration N°: LGRP-00885-V01.01-EN	Drafting rules: PEP-PCR-ed3-EN-2015 04 02
Verifier accreditation N°: VH02	Information and reference documents : www.pep-ecopassport.org
Date of issue: 12-2018	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025:2010 Internal <input checked="" type="checkbox"/> External <input type="checkbox"/>	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)	
PEP are compliant with XP C08-100-1 : 2014 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»	
Environmental data in alignment with EN 15804 : 2012 + A1 : 2013	

