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Product Environmental Profile

Connected control for shutters 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	Establish, support and interrupt, in normal conditions of circuit and for a reference life time of 10 years, rated powers up to 500 VA for the operating voltage of 240 V a.c. maximum, allowing the control of a shutter locally or remotely and managing its opening level. Compatible with standard shutter motors up to 500 W and associable to one or more wireless controls.
Reference Product	BT-K4027C + BT-KW32 + 2 x BT-K4950 + 2 x BT-KW00 + BT-K4703 + BT-KA4803KW Connected control for shutters with cover + 2 blank plates with cover + 3M support + 3M cover 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:

BT-K4027C	BT-KW32	BT-K4950	BT-KW00	BT-K4703	BT-KA4803KW
	BT-KG32 BT-KM32		BT-KG00 BT-KM00		BT-KA4803DW - DA - MW - KM - DM - MM BT-KA4803KG - DG - ZW - NW - ZM - ZG BT-KA4803NG





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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 and its delegated directive 2015/863/EU.

Plactice as 0/ of weight		Motole on 0/ of weight	Others as 0/ of weight	
Total weight of Reference Product	241 g (all	packaging included)		

Plastics as % of weight		Metals as % of weight		Others as % of weight		
Polyamide	22,3 %	Steel	1,2 %	Electronic cards	7,5 %	
Polycarbonate	11,9 %					
ABS	6,2 %					
Polyketone	2,4 %					
		Packaging				
PVC	1,5 %			Paper / Carboard	29,1 %	
Polyethylene	0,9 %			Wood	16,9 %	
Polypropylene	0,1 %					
Total plastics	45,3 %	Total metals	1,2 %	Total others	53,5 %	

Estimated recycled material content: 22 % by mass.

For the configurations with zamak cover plates:

Total weight of	
Reference Product	297 g (all packaging included)

Plastics as % of weight		Metals as % of weight		Others as % of weight		
Polyamide	18,0 %	Zamak	22,7 %	Electronic cards	6,1 %	
Polycarbonate	6,5 %	Steel	1,0 %			
ABS	4,2 %					
Polyketone	2,0 %					
	'	Packagi	ng			
PVC	1,3 %			Paper / Carboard	23,6 %	
Polyethylene	0,8 %			Wood	13,8 %	
Total plastics	32,8 %	Total metals	23,7 %	Total others	43,5 %	

Estimated recycled material content: 17 % 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 780 km by road from our warehouse to the local point of distribution into the European market. Packaging is compliant with European directive 2004/12/EU concerning packaging and packaging waste. At their end of life, its recyclability rate is 93 % (in % of packaging weight).



■ INSTALLATION ■

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.





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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.

• Elements to process specifically:

In accordance with the requirements of this Directive, the following components must be removed and sent to specific channels for processing which comply with the WEEE Directive 2012/19/EU:

- electronic cards more than 10 cm²: 18 g

• 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 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 88 %. 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)
other materials (exclunding packaging)
packaging (all types of materials)
45 %

• Recyclability rate of the configurations with zamak cover plates:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 92 %. 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)
- other materials (excluding packaging)
- packaging (all types of materials)
: 27 %
: 24 %
: 37 %



■ 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	 Product category: active product. Use scenario: ten-year working life. Stand-by mode power: 0,3 W for 99,9 % of the time; active mode power: 0,6 W for 0,1 % of the time. Dissipations of the LED lighting not taken into account, since the standard product is provided with LED off. 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 I			Raw material and manufacture		Distribution		Installation		Use		e
Global warming	1.46E+01	kgCO ₂ eq.	1.67E+00	11%	9.36E-03	< 1%	7.12E-03	< 1%	1.29E+01	88%	1.46E-02	< 1%
Ozone depletion	1.07E-06	kgCFC-11 eq.	2.30E-07	22%	1.90E-11	< 1%	5.31E-11	< 1%	8.40E-07	78%	3.71E-10	< 1%
Acidification of soils and water	5.68E-02	kgSO ₂ eq.	2.91E-03	5%	4.20E-05	< 1%	3.33E-05	< 1%	5.38E-02	95%	5.58E-05	< 1%
Water eutrophication	5.47E-03	kg(PO ₄)³- eq.	2.13E-03	39%	9.66E-06	< 1%	2.83E-05	< 1%	3.25E-03	59%	6.40E-05	1%
Photochemical ozone formation	3.27E-03	kgC ₂ H ₄ eq.	3.04E-04	9%	2.99E-06	< 1%	2.37E-06	< 1%	2.96E-03	90%	4.36E-06	< 1%
Depletion of abiotic resources - elements	1.99E-04	kgSb eq.	1.98E-04	99%	3.74E-10	< 1%	3.19E-10	< 1%	1.12E-06	< 1%	9.39E-10	< 1%
Total use of primary energy	2.82E+02	MJ	2.36E+01	8%	1.32E-01	< 1%	9.66E-02	< 1%	2.58E+02	91%	1.60E-01	< 1%
Net use of fresh water	4.73E+01	m³	5.04E-01	1%	8.37E-07	< 1%	2.21E-06	< 1%	4.68E+01	99%	1.28E-05	< 1%
Depletion of abiotic resources - fossil fuels	1.60E+02	МЛ	1.36E+01	8%	1.31E-01	< 1%	9.38E-02	< 1%	1.46E+02	91%	1.43E-01	< 1%
Water pollution	9.11E+02	m³	3.75E+02	41%	1.54E+00	< 1%	1.09E+00	< 1%	5.32E+02	58%	1.66E+00	< 1%
Air pollution	6.89E+02	m³	1.31E+02	19%	3.84E-01	< 1%	7.21E-01	< 1%	5.55E+02	81%	1.73E+00	< 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.

The environmental impacts are calculated for a configuration composed by control with cover, 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 Life cycle:

- for the configurations with different finishings 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		Total Manufacturing			Installation	Use	End of life	
Ai	ir pollution	Other indicators	Air pollution	Other indicators	All indicators	All indicators	All indicators	All indicators	
	1,7	1,1	4,8	1,3	1,2	1,0	1,0	1,2	

Registration N°: LGRP-00940-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: 09-2019	Validity period: 5 years
Independent verification of the declaration and data, in complia Internal \square External \square	nnce 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 : 2014 The elements of the present PEP cannot be compared with eler	ments from another program
Document in compliance with ISO 14025 : 2010: «Environmental declarations»	
Environmental data in alignment with EN 15804 : 2012 + A1 : 20	013