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Product Environmental Profile

Lighting outlet position Magic 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.).



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-503R	BT-503/1/R	BT-5001
		BT-5003





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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 ofReference Product85 g (all packaging included)								
Plastics as % of weight		Metals as % of weight		Other (packaging) as % of weight				
Polycarbonate	32,7 %	Steel	11,3 %	Paper / cardboard	17,8 %			
ABS	25,5 %	Copper alloys	3,0 %	Wood	5,8 %			
Polypropylene	2,1 %	Silver alloys	< 0,1 %	Polyethylene	1,6 %			
Polyamide	0,2 %							
Total plastics	60,5 %	Total metals	14,3 %	Total other (packaging)	25,2 %			

Estimated recycled material content: 19 % 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.

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

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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 of the Reference Product:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 94 %. 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) : 57 % - metal materials (excluding packaging) : 14 % :23 %
- packaging (all types of materials)



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: 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 modelling duration does not constitute a minimum durability requirement. Energy model: Electricity Mix, Europe 27 - 2002. 					
End of life	The default end of life scenario maximizing the impacts.					
Software and database used	EIME V5 and its database «CODDE-2015-04»					

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SELECTION OF ENVIRONMENTAL IMPACTS

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	Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
Global warming	5.21E+00	kgCO ₂ eq.	5.55E-01	11%	3.30E-03	< 1%	1.32E-03	< 1%	4.65E+00	89%	6.84E-03	< 1%
Ozone depletion	1.21E-06	kgCFC-11 eq.	7.73E-08	6%	6.69E-12	< 1%	1.08E-11	< 1%	1.13E-06	94%	1.60E-10	< 19
Acidification of soils and water	3.58E-02	kgSO ₂ eq.	6.20E-04	2%	1.48E-05	< 1%	6.22E-06	< 1%	3.51E-02	98%	2.64E-05	< 1º
Water eutrophication	1.55E-03	kg(PO₄)³- eq.	1.93E-04	12%	3.41E-06	< 1%	5.82E-06	< 1%	1.32E-03	85%	3.18E-05	2%
Photochemical ozone formation	1.76E-03	kgC ₂ H ₄ eq.	9.80E-05	6%	1.05E-06	< 1%	4.44E-07	< 1%	1.66E-03	94%	2.05E-06	< 1'
Depletion of abiotic resources - elements	3.82E-05	kgSb eq.	3.80E-05	99 %	1.32E-10	< 1%	6.00E-11	< 1%	2.12E-07	< 1%	4.23E-10	< 1'
Total use of primary energy	8.95E+01	МЈ	9.18E+00	10%	4.42E-02	< 1%	1.71E-02	< 1%	8.02E+01	90%	7.35E-02	< 1
Net use of fresh water	1.52E-02	m³	3.09E-03	20%	2.95E-07	< 1%	4.50E-07	< 1%	1.21E-02	80%	5.54E-06	< 1'
Depletion of abiotic resources - fossil fuels	5.61E+01	ГM	8.08E+00	14%	4.64E-02	< 1%	1.85E-02	< 1%	4.79E+01	85%	9.68E-02	< 1
Water pollution	3.84E+02	m³	1.88E+02	49 %	5.43E-01	< 1%	2.01E-01	< 1%	1.95E+02	51%	7.95E-01	< 1
Air pollution	2.66E+02	m ³	6.55E+01	25%	1.35E-01	< 1%	1.45E-01	< 1%	1.99E+02	75%	7.63E-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 are calculated for a configuration composed by 1 way Switch, Support and Cover plate.

For the lighting point containing the article BT-5003 the environmental impacts of the Distribution, Installation, Use and End of Life phases are the same as those of the Reference Product. The environmental impacts of the Production phase are the same as those of the Reference Product, except for the «Depletion of abiotic resources - elements». For this indicator the environmental impacts are obtained by multiplying those of the Reference Product by the coefficient 1,6.

Registration N°: LGRP-00619-V01.01-EN	Drafting rules: PEP-PCR-ed3-EN-2015 04 Supplemented by «PSR-0005-ed2-2016 02			
Verifier accreditation N°: VH02	ww.pep-ecopassport.org			
Date of issue: 12-2017	-2017 Validity period: 5 years			
Independent verification of the declaration and data, in cor Internal 🛛 External 🗌	npliance with ISO 14025:2010			
The PCR review was conducted by a panel of experts chair				
PEP are compliant with XP C08-100-1 : 2014 The elements of the present PEP cannot be compared with				
Document in compliance with ISO 14025 : 2010: «Environm declarations»	PORT			
Environmental data in alignment with EN 15804 : 2012 + A	1 : 2013			