

BTicino SpA Viale Borri, 231 21100 - Varese - Italy



Your usual Sales office www.bticino.com

Product Environmental Profile

Lighting outlet position LivingLight 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	sectors, the command and interruption current not exceeding 16 A. It can be compared to the command and interruption current not exceeding 16 A. It can be compared to the command and interruption current not exceeding 16 A. It can be compared to the command and interruption current not exceeding 16 A. It can be compared to the command and interruption current not exceeding 16 A. It can be compared to the command and interruption current not exceeding 16 A. It can be compared to the command and interruption current not exceeding 16 A. It can be compared to the compared	n of a low voltage elect impleted with LEDs for th	ed support, allow, in the domestic and tertiary rical circuit (250 V), carrying each one a load ne backlighting. PSR category: passive product. nario is 30% time of use at 30% of load current.
	LIVING BILLIANS		Биелина
Reference Product	BT-LN4703	. ,	BT-LNA4803BI
	3 modules support - screws eq	uipped	3 modules square cover plate - white
	BT-L4001N	BT-L4950	BT-L4003N
	1 way 1P Switch - 16 AX - 250 V a.c.	1 module Blank pla	te 2 way 1P Switch - 16 AX - 250 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

The environmental data is representative of the following products:

BT-LNA4803BI	BT-LN4703	BT-L4001N	BT-L4950	BT-L4003N
BT-LNA48030A - BZ - NS - AC - GL - NA - AG - ACS - PK - SQ - RK - AE - CB	BT-LN4703C	BT-N4001N	BT-N4950	BT-N4003N
BT-LNA4803VD - OD - AD - KF - KA - KG - AR - TE		BT-NT4001N	BT-NT4950	BT-NT4003N
BT-LNB48030C - AC - TC - CR - GF - MA - CO - SI - GP - CT - SS		BT-L4001A		BT-L4003A
BT-LNB4803TW - TS - TB - SM - CL - TG - AR - BI - TE		BT-N4001A		BT-N4003A
BT-LNC4803BN - TE - AR - PT - PL - OF - NK - NL - PR - GL		BT-NT4001A		BT-NT4003A
BT-L4803PA - PB - BI				



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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.

Total weight of Reference Product 120 g (with unit packaging)

Plastics as % of weight		Metals as % of weight		Other (packaging) as % of wei	ght
Polycarbonate	30,4 %	Steel	8,8 %	Paper / cardboard	17,8 %
ABS	23,4 %	Copper alloys	4,9 %	Wood	8,4 %
Polypropylene	3,4 %	Silver alloys	0,1 %	Polyethylene	1,7 %
Polyamide	0,3 %			Polypropylene	0,1 %
Various plastics	0,7 %				
Total plastics	58,2 %	Total metals	13,8 %	Total other (packaging)	28,0 %

Estimated recycled material content: 18 % by mass.

For the lighting outlet positions with metallic cover plates:

Plastics as % of weight		Metals as % of weight		Other (packaging) as % of weight		
Polycarbonate	21,8 %	Zamak	43,1 %	Paper / cardboard	16,4 %	
ABS	3,7 %	Steel	4,4 %	Wood	5,8 %	
Polypropylene	1,7 %	Copper alloys	2,4 %	Polyethylene	0,3 %	
Polyamide	0,1 %	Silver alloys	< 0,1 %	Polypropylene	< 0,1 %	
Various plastics	0,3 %					
Total plastics	27,6 %	Total metals	49,9 %	Total other (packaging)	22,5 %	

Estimated recycled material content: 14 % 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 I

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.



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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.

• 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 95 %. 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)
14 %
packaging (all types of materials)
26 %

• Recyclability rate for the lighting outlet positions with metallic cover plates:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 98 %. 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)
22 %



■ 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: passive product. Use scenario: non-continuous operation for 20 years at 30% 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 |

	Total for I	Life cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	e
Global warming	4,59E+00	kgCO ₂ eq.	7,41E-01	16%	4,64E-03	< 1%	2,09E-03	< 1%	3,83E+00	83%	9,39E-03	< 1%
Ozone depletion	1,04E-06	kgCFC-11 eq.	1,14E-07	11%	9,40E-12	< 1%	1,68E-11	< 1%	9,30E-07	89%	2,20E-10	< 1%
Acidification of soils and water	2,99E-02	kgSO ₂ eq.	8,42E-04	3%	2,08E-05	< 1%	9,73E-06	< 1%	2,90E-02	97%	3,62E-05	< 1%
Water eutrophication	1,40E-03	kg(PO ₄)³- eq.	2,56E-04	18%	4,79E-06	< 1%	8,64E-06	< 1%	1,09E-03	78%	4,37E-05	3%
Photochemical ozone formation	1,51E-03	kgC ₂ H ₄ eq.	1,34E-04	9%	1,48E-06	< 1%	6,95E-07	< 1%	1,37E-03	91%	2,81E-06	< 1%
Depletion of abiotic resources - elements	1,40E-04	kgSb eq.	1,40E-04	100%	1,86E-10	< 1%	9,45E-11	< 1%	1,74E-07	< 1%	5,81E-10	< 1%
Total use of primary energy	9,43E+01	MJ	1,65E+01	17%	6,56E-02	< 1%	3,01E-02	< 1%	7,76E+01	82%	1,43E-01	< 1%
Net use of fresh water	1,48E-02	m³	4,79E-03	32%	4,15E-07	< 1%	6,90E-07	< 1%	9,99E-03	68%	7,61E-06	< 1%
Depletion of abiotic resources - fossil fuels	5,05E+01	МЛ	1,08E+01	21%	6,52E-02	< 1%	2,92E-02	< 1%	3,94E+01	78%	1,33E-01	< 1%
Water pollution	4,13E+02	m³	2,50E+02	61%	7,63E-01	< 1%	3,17E-01	< 1%	1,61E+02	39%	1,09E+00	< 1%
Air pollution	2,77E+02	m³	1,11E+02	40%	1,90E-01	< 1%	2,19E-01	< 1%	1,64E+02	59%	1,05E+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.

For products covered by the PEP other than the Reference Product: the environmental impacts are calculated for a configuration composed by 1 way Switch, 2 way Switch, Blank plate, Support and Cover plate. To obtain the environmental impacts for each phase of the lifecycle, multiply those of Reference Product for these coefficients:

Lighting outlet position with	Total		Manufacturing		Distribution Installation		Use	End of life
cover plates:	Air pollution	Other indicators	Air pollution	Other indicators	All indicators	All indicators	All indicators	All indicators
LL Zamak Square and Round	4,8	1,3	7,7	2,6	2,0	1,5	1,0	1,8
LL AIR	3,9	1,2	6,1	2,3	1,9	2,1	1,0	1,5
Living International Polymer	1,	0	1,	,1	1,1	1,0	1,0	1,0

Registration N°: LGRP-00164-V01.01-EN	Drafting rules: PEP-PCR-ed3-EN-2015 04 02				
	Supplemented by PSR-0005-ed1-2012 12 11				
Verifier accreditation N°: VH02	Information and reference documents : www.pep-ecopassport.org				
Date of issue: 06-2016	Validity period: 5 years				
Independent verification of the declaration and data, in complia	nce with ISO 14025:2010				
Internal ☑ External ☐					
The PCR review was conducted by a panel of experts chaired by	Philippe Osset (SOLINNEN)				
The elements of the present PEP cannot be compared with ele	ments from another program CO PASS				
Document in compliance with ISO 14025 : 2010: «Environmenta declarations»	labels and declarations. Type III environmental				
Environmental data in alignment with EN 15804 : 2012 + A1 : 20	113				