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Product Environmental Profile

Actuator control 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	Flush mounted two-module actuator / command with 2 independent relays for single or double loads or roller shutter functions. The device can also be configured to manage a remote actuator. To be completed with 1 or 2 module covers.
Reference Product	
	BT-K4672M2L
	lighting actuator control LIVING NOW

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-K4672M2L

BT-K4672M2S



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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 amended by delegated directive (EU) 2015/863, and its amendment 2017/2102/EU.

Total weight of	
Reference Product	0.07 kg (all packaging included)

Product alone weight 0.05 kg						
Plastics as % of weight		Metals as % of weight		Other as % of weight		
PC	18.9 %	Steel	0.7 %	Electronic card	38.2 %	
ABS	5.1 %			Various components	3%	

Packaging (alone) : 0.02 kg						
PET	1.6 %		Cardboard	16.4 %		
PE	0.3 %		Wood	8.5 %		
			Paper	7.3 %		

Total plastics : 0.02 kg	25.9 %	Total metals : 0.0005 kg	0.7 %	Total others : 0.05 kg	73.4 %

At the date of edition of this document, the content of recycled material(s) is :

- Product alone (excluding packaging): 0% by mass
- Packaging only: 57% by mass



■ MANUFACTURE ■

This Reference Product comes from a site that has received ISO14001 certification. The final assembly site is located at Erba, Italy.



■ 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 322 km by road from our warehouse to the local point of distribution into the Italian market.

Packaging is compliant with european directive 2004/12/EU concerning packaging and packaging waste and to the Italian transposition decree (Legislative Decree 152/06 and subsequent amendments).



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 card > 10 cm²: 28 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.



■ 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 of products marketed and used in Italy, in compliance with the local current standards. The datasets collected in this PEP are representative of the year 2024.

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

	Manufacture A1-A3	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.	
	Distribution A4	Transport between the last Group distribution centre and an average delivery point in the sales area.	
Limit	Installation A5	The end of life of the packaging.	
System L	Use B1-B7	 Product category: Other equipments: Active Products. PSR0005 ed3.1 § 3.15. Specific rules for the 'Other Equipment' family Use scenario: ten-year working life. Stand-by mode power: 0.17 W for 70 % of the reference life time; active mode power: 0.73 W for 30 % of the reference life time. This modelling duration does not constitute a minimum durability requirement. Energy model: Electricity Mix§Low voltage§2018§Italy§IT. 	
End of life C1-C4 The default end of life scenario maximizing the impacts.			
D Mc	odule	Module D is calculated according to PCR-ed4-EN-2021 09 06 based on the materials recycled and the modelled end-of-life scenario. It expresses the net benefits and burdens beyond the boundaries of the system, and are not to be included in the life cycle totals.	
	ware and data- used	The set of indicators used is Indicators for PEF EF 3.0 (compliant: PEP ed.4, EN15804+A2) v2.0 EIME V6 and its CODDE-2024-06-04 database	

Unless otherwise indicated the modelling energetic mix are those integrated in the data modules used from the aformentioned database.



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■ ENVIRONMENTAL IMPACTS ■

	Tabell 16 Occile		Manufacturing	Distribution	Installation		Use ⁽¹⁾		End of Life
	iotai	ife Cycle	A1-A3	A4	A5	Total B1-B7	B2	В6	C1-C4
Climate change - total	2.08E+01	kg CO ₂ eq.	9.78E+00	0*	4.53E-02	1.09E+01	0.00E+00	1.09E+01	1.98E-02
Climate change - fossil fuels	2.07E+01	kg CO ₂ eq.	9.80E+00	0*	9.02E-03	1.09E+01	0.00E+00	1.09E+01	1.97E-02
Climate change - biogenics	3.97E-02	kg CO ₂ eq.	-2.01E-02	0.00E+00	3.63E-02	2.33E-02	0.00E+00	2.33E-02	1.70E-04
Climate change - land use and land use transformation	2.04E-05	kg CO ₂ eq.	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-09
Ozone depletion	9.64E-07	kg CFC-11 eq.	9.28E-07	0*	3.22E-10	3.48E-08	0.00E+00	3.48E-08	1.75E-09
Acidification (AP)	1.32E-01	mole of H+ eq.	8.89E-02	0*	5.44E-05	4.29E-02	0.00E+00	4.29E-02	1.54E-04
Freshwater eutrophication	1.56E-05	kg P eq.	1.01E-05	0*	7.10E-09	6.28E-07	0.00E+00	6.28E-07	4.90E-06
Marine aquatic eutrophication	1.36E-02	kg of N eq.	7.90E-03	3.52E-06	1.32E-05	5.65E-03	0.00E+00	5.65E-03	3.04E-05
Terrestrial eutrophication	1.78E-01	mole of N eq.	7.51E-02	3.86E-05	1.73E-04	1.02E-01	0.00E+00	1.02E-01	3.74E-04
Photochemical ozone formation	4.27E-02	kg NMVOC eq.	2.51E-02	9.75E-06	3.72E-05	1.75E-02	0.00E+00	1.75E-02	9.10E-05
Depletion of abiotic resources - elements	9.19E-04	kg Sb eq.	9.15E-04	0*	0*	3.97E-06	0.00E+00	3.97E-06	1.60E-07
Depletion of abiotic resources - fossil fuels	3.19E+02	МЈ	1.49E+02	0*	1.67E-01	1.69E+02	0.00E+00	1.69E+02	4.74E-01
Water requirement	3.13E+00	m³ deprivation worldwide eq.	2.28E+00	0*	3.81E-04	8.45E-01	0.00E+00	8.45E-01	6.90E-03
Emission of fine particles	8.00E-07	incidence of diseases	5.07E-07	0*	3.77E-10	2.91E-07	0.00E+00	2.91E-07	1.12E-09

0.00E+00
-2.20E-09
-4.90E-04
3.49E-08
-9.30E-06
-1.69E-04
-7.75E-05
-1.57E-04
-5.43E-01
-3.71E-02

-3.39E-09

Module D -3.95E-02

-1.83E-02

-2.12E-02

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^{*}Represents less than 0.01% of the total life cycle of the reference flow

⁽¹⁾ For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column



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Manufacturing Distribution Installation Use(1) **End of Life Total Life Cycle** A1-A3 **A4** Α5 Total B1-B7 C1-C4 kBq of U235 8.19E+00 Ionizing radiation, human health 7.86E+00 0* 3.76E-03 3.25E-01 0.00E + 003.25E-01 5.15E-03 **Ecotoxicity (fresh water)** 5.19E+01 **CTUe** 3.50E+01 0* 2.20E-01 1.62E+01 0.00E + 001.62E+01 4.54E-01 CTUh 0* 1.63E-12 1.29E-09 1.29E-09 Human toxicity, carcinogenic effects 7.64E-09 6.24E-09 0.00E + 001.05E-10 **CTUh** 0* Human toxicity, non-carcinogenic effects 1.12E-07 9.44E-08 6.71E-11 1.73E-08 0.00E + 001.73E-08 6.77E-10 3.71E-01 Impacts related to land use/soil quality 7.33E-02 0.00E+001.75E-04 2.83E-01 0.00E+00 2.83E-01 1.48E-02 Use of renewable primary energy, excluding renewable primary energy resources used as 5.56E+01 MJ 6.10E+00 0* 1.26E-02 4.95E+01 0.00E+00 4.95E+01 2.04F-02 raw materials Use of renewable primary energy resources 2.26E-01 MJ 2.26E-01 0.00E+000.00E+00 0.00E+000.00E+00 0.00E + 000.00E+00 used as raw materials Total use of renewable primary energy 0* resources (primary energy and primary energy 5.59E+01 MJ 6.32E+00 1.26E-02 4.95E+01 0.00E+00 4.95E+01 2.04E-02 resources used as raw materials) Use of non-renewable primary energy, excluding non-renewable primary energy 3.18E+02 MJ 1.48E+02 0* 1.67E-01 1.69E+02 0.00E+00 1.69E+02 4.74E-01 resources used as raw materials Use of non-renewable primary energy 8.84E-01 MJ 8.84E-01 0.00E + 000.00E+000.00E+00 0.00E + 000.00E+00 0.00E + 00resources used as raw materials Total use of non-renewable primary energy resources (primary energy and primary energy 3.19E+02 MJ 0* 0.00E+00 1.69E+02 1.49E+02 1.67E-01 1.69E+02 4.74E-01 resources used as raw materials)

Module D

-2.06E-01 5.06E-02 -3.45E-11 -1.53E-08 0.00E+00 -5.88E-02 2.50E-01 1.91E-01 -5.15E-01 -2.79E-02 -5.43E-01

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							(1)		
	Total Life Cycle		Manufacturing A1-A3	Distribution A4	Installation A5	Total B1-B7	Use ⁽¹⁾	B6	End of Life C1-C4
					-				
Use of secondary materials	1.44E-02	kg	1.44E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	0.00E+00	МЈ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	0.00E+00	МЈ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	7.31E-02	m³	5.30E-02	0*	1.47E-05	1.99E-02	0.00E+00	1.99E-02	1.65E-04
Hazardous waste disposed of	1.82E+01	kg	1.77E+01	0.00E+00	9.28E-03	4.15E-01	0.00E+00	4.15E-01	3.33E-02
Non-hazardous waste disposed of	4.54E+00	kg	2.97E+00	0*	1.31E-03	1.56E+00	0.00E+00	1.56E+00	1.60E-02
Radioactive waste disposed of	8.51E-03	kg	7.95E-03	0*	0*	5.49E-04	0.00E+00	5.49E-04	1.13E-05
Components for re-use	0.00E+00	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	4.81E-03	kg	6.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.15E-03
Materials for energy recovery	0.00E+00	MJ by energy vector	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of primary energy during the life cycle	3.75E+02	МЈ	1.55E+02	0*	1.80E-01	2.19E+02	0.00E+00	2.19E+02	4.95E-01

Biogenic carbon content of the product	0.00E+00	kg of C	0.00E+00						
Biogenic carbon content of the associated packaging	1.13E-02	kg of C	1.13E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

^{0.00}E+00 6.11E-03

Module D 0.00E+00

0.00E+00

0.00E+00

-8.64E-04
-2.61E+00
-2.12E-02
-6.66E-06
0.00E+00
0.00E+00
0.00E+00
-3.52E-01

The values of the indicators defined in the PCR-ed4-EN-2021 09 06 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 assimilated to the impacts of the Reference Product.

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Registration number: LGRP-01975-V01.01-EN	Drafting rules: «PEP-PCR-ed4-EN-2021 09 06» Supplemented by «PSR-0005-ed3.1-2023 12 08»
Verifier accreditation N°: VH08	Information and reference documents: www.pep-ecopassport.org
Date of issue: 08-2024	Validity period: 5 years
Independent verification of the declaration and data, in complian	ce with ISO 14025 : 2006
Internal ☐ External ⊠	PEP
The PCR review was conducted by a panel of experts chaired by Juli	
PEP are compliant with NF C08-100-1:2016 and EN 50693:2019 or N The elements of the present PEP cannot be compared with elements	NF E38-500 :2022 PASS
Document in compliance with ISO 14025 : 2006: «Environmental laber Type III environmental declarations»	

Environmental data in alignment with EN 15804: 2012 + A2: 2019