

Product Environmental Profile

Arteor™

Two units of 1-Way Switch - White - 6 AX - 1 Module



LEGRAND'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.

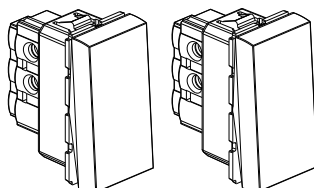
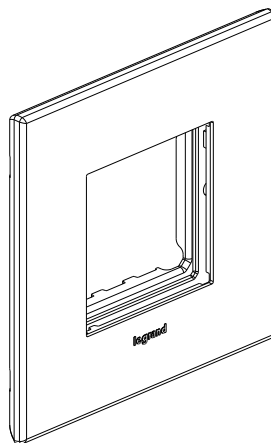
• Involve the environment in product design and provide informations in compliance with ISO 14025

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 for 20 years rated currents in normal conditions of circuit characterized to a 230 V low voltage with rated load not exceeding 6 A.	
Reference Product		
	Cat.No 2 x 5 734 00 - Mechanism	Cat.No 5 757 10 - Cover Plate with frame 2 modules square version - White
	Two units of 1 Way switch -SP-White - 1 module- 6 AX Square Version.	

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:

Catalogue Numbers - Mechanisms	Catalogue Numbers - Cover plate with Frame
• 2 x 5 734 00 • 2 x 5 736 00 • 2 x 5 748 00	• 5 757 10 • 5 759 62 • 5 759 74 • 5 755 90 • 5 759 85 • 5 756 80

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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		140 g (all packaging included)			
Plastics as % of weight		Metals as % of weight		Other as % of weight	
PC	25.2 %	Steel	30.2 %		
ABS	8.9 %	Copper alloys	8.1 %		
PP	4.7 %	Silver alloys	0.1 %		
		Other metal	< 0.1 %		
Packaging as % of weight					
PP (packaging)	4.9 %			Paper (packaging)	17.6 %
PE (packaging)	0.3 %				
Total plastics	44.0 %	Total metals	38.4 %	Total others	17.6 %

Estimated recycled material content: 27 % by mass.



■ MANUFACTURE

This Reference Product comes from a site that has 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 578 km by road from our warehouse to the local point of distribution into the market in India. Packaging is compliant with applicable regulation. At their end of life, its recyclability rate is 78 % (in % of packaging weight).



■ 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.

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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:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 93 %. 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) : 37 %
- metal materials (excluding packaging) : 38 %
- packaging (all types of materials) : 18 %



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 India.

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; India - 2009.
End of life	The default end of life scenario maximizing the impacts.
Software and database used	EIME & 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	
Global warming	6.87E+00	kgCO ₂ eq.	6.87E-01	10 %	4.01E-03	< 1 %	2.39E-03	< 1 %	6.17E+00	90 %	9.93E-03	< 1 %
Ozone depletion	2.06E-07	kgCFC-11 eq.	3.37E-08	16 %	8.13E-12	< 1 %	3.23E-11	< 1 %	1.72E-07	83 %	1.88E-10	< 1 %
Acidification of soils and water	7.90E-03	kgSO ₂ eq.	1.38E-03	17 %	1.80E-05	< 1 %	1.08E-05	< 1 %	6.45E-03	82 %	3.93E-05	< 1 %
Water eutrophication	3.76E-03	kg[PO ₄] ³⁻ eq.	1.98E-03	53 %	4.14E-06	< 1 %	1.18E-05	< 1 %	1.70E-03	45 %	5.26E-05	1 %
Photochemical ozone formation	9.82E-04	kgC ₂ H ₄ eq.	1.53E-04	16 %	1.28E-06	< 1 %	7.84E-07	< 1 %	8.24E-04	84 %	3.02E-06	< 1 %
Depletion of abiotic resources - elements	1.82E-04	kgSb eq.	1.82E-04	100 %	1.61E-10	< 1 %	1.22E-10	< 1 %	3.21E-08	< 1 %	5.63E-10	< 1 %
Total use of primary energy	1.11E+02	MJ	1.63E+01	15 %	5.68E-02	< 1 %	3.04E-02	< 1 %	9.47E+01	85 %	1.14E-01	< 1 %
Net use of fresh water	3.85E-02	m ³	3.18E-02	82 %	3.59E-07	< 1 %	1.23E-06	< 1 %	6.75E-03	18 %	6.59E-06	< 1 %
Depletion of abiotic resources - fossil fuels	9.61E+01	MJ	8.21E+00	9 %	5.64E-02	< 1 %	2.88E-02	< 1 %	8.77E+01	91 %	1.05E-01	< 1 %
Water pollution	4.38E+02	m ³	1.27E+02	29 %	6.60E-01	< 1 %	3.33E-01	< 1 %	3.09E+02	70 %	1.22E+00	< 1 %
Air pollution	7.53E+02	m ³	1.42E+02	19 %	1.65E-01	< 1 %	2.95E-01	< 1 %	6.10E+02	81 %	9.64E-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.

The environmental impacts refer to a configuration composed by two units of 1 Way switch and one cover plate with frame.

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.

Registration N°: LGRP-01038-V01.01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0005-ed2-2016 03 29»
Verifier accreditation N°: VH23	Information and reference documents: www.pep-ecopassport.org
Date of issue: 08-2019	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010 Internal ☒ External ☐	
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	

