

128 av. du Maréchal-de-Lattre-de-Tassigny 87045 Limoges Cedex France Tel. +33 (0) 555068787 Fax. +33 (0) 555068888

Your usual Sales office www.legrand.com

Product Environmental Profile

Light sensitive switches





LEGRAND'SENVIRONMENTALCOMMITMENTS

- Incorporate environmental management into our industrial sites Of all Legrand sites worldwide, over 80% are ISO 14001-certified (sites belonging to the Group for more than five years)..
- Involve the environment in product design Provide our customers with all relevant information (composition, consumption, end of life, etc.). Reduce the environmental impact of products over their whole life cycle..
- Offer our customers environmentally friendly solutions
 Develop innovative solutions to help our customers design more energy efficient, better managed and more environmentally friendly installations.



REFERENCE PRODUCT

Fonction	Allow switching a lighting circuit by a program of an ON and OFF time associated and based on light conditions (nightfall, daybreak) during a lifetime of 10 years. Supplied with IP 65 weatherproof photoelectric cell according to the standards EN 60730-1, 60730-2-7 and 62430.						
Reference Product	TOP TO STATE OF THE PARTY OF TH						
	Catalogue Numbers 412626						
	Light sensitive switches - Power supply : 230 V environ 50/60 Hz						

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 for the reference product refers to the following Catalogue Numbers:

Références			
412626, 412627			



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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. At the date of publication of this document, this Reference Product does not contain RoHS substances (2002/95/EC and its revision 2011/65/EU). It contains none of the 138 candidate substances of the candidate list of the REACH regulation dated 19/12/2012.

Total weight of Reference Product	284 g (with uni	it packaging)				
Plastics as % of weight		Metals as % of weight		Other as % of weight		
PC	29.7%	Steel	1.8%	PWB	37.5%	
PA	0.9%			Battery	2.9%	
PE	0.5%					
Other plastic	0.1%					
PU	<0,1%			Packaging as % of weight		
				Paper	26.5%	
Total plastics	31.3%	Total metals	1.8%	Total other and packaging	66.9%	

Estimated recycled material content: 31% by mass.



MANUFACTURE

This Reference Product comes from a site 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 market Europe.

 $Packaging\ is\ compliant:\ European\ directive\ 2004/12/EC\ concerning\ packaging\ and\ packaging\ was te.$

At the packaging end of life, its theoretical recycling potential is of 100% (in % of the mass of the packaging)



INSTALLATION

Installation components not delivered with the product are not taken into account.



USE

Servicing and maintenance:

Under normal conditions of use, this type of Product requires no servicing or maintenance

Consumable

The product has a battery Lithium-Ione. No battery change during use



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■ END OF LIFE ■

Product end of life management is integrated into product design by the development teams. The 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 the IEC/TR 62635 technical report, the recyclability rate of the product is estimated as 82%. This value is based on data collected from a technological channel using industrial procedures. It does not pre-validate the effective use of this channel for end-oflife electrical and electronic products.

Separated into:

: 30 % - Plastic materials - Metal materials : 2% : 24 % - Other materials : 26 % - Packaging



ENVIRONMENTALIMPACTS

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

The following modelling elements were taken into account:

Manufacture	Unit packaging taken in account. As required by the "PEP ecopassport" programme all transports for the manufacturing of the Reference Product, including materials and components, has been taken in account.
Distribution	Transport between the last Group distribution centre and an average delivery to the sales area
Installation	Installation components not delivered with the product are not taken into account.
Use	 Under normal conditions of use, this type of Product requires no servicing or maintenance The product has a battery Lithium-Ione. No battery change during use Product category: active product Use scenario: For 10 years working life, in active mode of operation, with a power of 1.23W and associated time 30 % and in sleep phase of operation with a power of 0.96W and 70% associated time of one year of operation Energy model: Europe, year 2005
End of life	In view of the data avalaible on the date of creation of the document, and in accordance with the requirements of the PCR of the «PEP ecopassport» programme, transport of the Reference Product by road only once, over a distance of 1000 km, to a processing site at end of life was counted.
Software used	EIME V5 and its database "Legrand-2012-10-31 version 3" made from the database "CODDE-2012-07"



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■ ENVIRONMENTAL IMPACTS (continued)

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		Total for Li	fe cycle	Raw material an manufactur		Distributio	n	Installation		Use		End of life	
	Contribution to greenhouse effect	5.81E+04	g~CO2	5.43E+03	9%	2.61E+01	< 1%	0.00E+00	0%	5.27E+04	91%	2.16E+01	< 1%
	Damage to the ozone layer	3.94E-03	g~CFC-11	1.05E-03	27%	1.84E-05	< 1%	0.00E+00	0%	2.86E-03	73%	1.53E-05	< 1%
licators	Eutrophisation of water	5.09E-01	g~PO43-	3.84E-01	76%	4.33E-04	< 1%	0.00E+00	0%	1.24E-01	24%	3.60E-04	< 1%
Mandatory indicators	Photochemical ozone formation	2.06E+01	g~C2H4	2.10E+00	10%	2.26E-02	< 1%	0.00E+00	0%	1.84E+01	90%	1.88E-02	< 1%
Manda	Acidification of the air	8.06E+00	g~H+	9.86E-01	12%	3.32E-03	< 1%	0.00E+00	0%	7.07E+00	88%	2.86E-03	< 1%
	Total energy consumed	1.14E+03	МЈ	9.61E+01	8%	3.29E-01	< 1%	0.00E+00	0%	1.04E+03	92%	2.74E-01	< 1%
	Consumption of water	2.32E+02	dm3	8.15E+01	35%	3.12E-02	< 1%	0.00E+00	0%	1.51E+02	65%	2.60E-02	< 1%
s	Depletion of natural resources	3.69E-14	années -1	3.57E-14	97%	4.49E-19	< 1%	0.00E+00	0%	1.18E-15	3%	3.73E-19	< 1%
ndicato	Toxicity of the air	1.00E+07	m^3	1.28E+06	13%	4.91E+03	< 1%	0.00E+00	0%	8.73E+06	87%	4.23E+03	< 1%
Optional indicators	Toxicity of the water	1.69E+01	dm³	1.77E+00	10%	3.63E-03	< 1%	0.00E+00	0%	1.51E+01	89%	3.02E-03	< 1%
0	Production of hazardous waste	9.85E-01	kg	1.11E-01	11%	9.69E-06	< 1%	0.00E+00	0%	8.74E-01	89%	8.06E-06	< 1%

The environmental impacts of the Reference Product are representative of the products covered by the PEP, which therefore constitute a homgeneous environmental family. Indicators are identical

The values of these impacts are valid for the context specified in this document. They must not be used directly to draw up the environmental balance sheet for the installation.

Registration number: LGRP-2014-43-v1-en		Drafting rule: PEP-PCR-ed 2.1-FR-2012 12 11 PSR-0005-ed1-FR-2012 12 11				
Authorisation number of checker: VH02	-ecopassport.org					
Date of issue: 06-2014						
Independent verification of the declaration and data, in according the Internal External	PEP					
In accordance with ISO 14025 :2006 Type III environmental	eco					
The critical review of the PCR was conducted by a panel of	PASS					
The elements of the present PEP cannot be compared with e	PORT _®					