

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 switch standard





■ LEGRAND'S ENVIRONMENTAL COMMITMENTS |

- 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	Allows the switching ON and OFF of an electric circuit programmed via captive segments according to the standards EN 60730, EN 60730-2-7 and EN 62430 for 20 years at 30% of rated load, during 30% of the time.
Reference Product	No. 100 Lis grand
	Catalogue Numbers 412623
	Light sensitive switch standard- Output 16 A - 250 V~/Daylight switch

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	
412623	



128 av. du Maréchal-de-Lattre-de-Tassigny 87045 Limoges Cedex France Tel. +33 (0) 5 55 06 87 87 Fax. + 33 (0) 5 55 06 88 88

Your usual Sales office www.legrand.com

Product Environmental Profile

Light sensitive switch standard





■ 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	155 g (with un	it packaging)			
Plastics as % of weight	<u>'</u>	Metals as % of weight		Other as % of weight	
PC	36.0%	Steel	3.4%	PWB	31.6%
PA	3.0%	Copper alloys	0.2%		
Other plastic	0.2%				
				Packaging as % of weight	
				Paper	24.8%
				PP	0.8%
Total plastics	39.2%	Total metals	3.6%	Total other and packaging	57.2%

Estimated recycled material content: 28% 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 waste.

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

No consumables are necessary to use the Reference Product



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 switch standard





■ END OF LIFE ■

Development teams integrate product end-of-life factors in 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 the IEC/TR 62635 technical report, the recyclability rate of the product is estimated as 85%. 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-of-life electrical and electronic products.

Separated into:

- Plastic materials : 37 % - Metal materials : 4 % - Other materials : 18 % - Packaging : 26 %



■ 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

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 No consumables are necessary to use the Reference Product 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 durabilty requirement Energy model: Europe, year 2002
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"



128 av. du Maréchal-de-Lattre-de-Tassigny 87045 Limoges Cedex France Tel. +33 (0) 555 06 87 87 Fax. + 33 (0) 5 55 06 88 88

Product Environmental Profile

Light sensitive switch standard









■ ENVIRONMENTAL IMPACTS (continued) ■

		Total for Lif	e cycle	Raw material ar manufactu		Distributio	n	Installation		Use		End of life	
	Contribution to greenhouse effect	4.74E+04	g~CO2	1.89E+03	4%	1.49E+01	< 1%	0.00E+00	0%	4.55E+04	96%	7.75E+00	< 1%
	Damage to the ozone layer	1.08E-02	g~CFC-11	4.02E-04	4%	1.06E-05	< 1%	0.00E+00	0%	1.04E-02	96%	1.47E-08	< 1%
licators	Eutrophisation of water	6.47E-01	g~PO43-	2.15E-01	33%	2.48E-04	< 1%	0.00E+00	0%	4.32E-01	67%	1.44E-05	< 1%
Mandatory indicators	Photochemical ozone formation	3.42E+00	g~C2H4	5.98E-01	17%	1.30E-02	< 1%	0.00E+00	0%	2.81E+00	82%	1.73E-03	< 1%
Manda	Acidification of the air	1.01E+01	g~H+	3.22E-01	3%	1.90E-03	< 1%	0.00E+00	0%	9.82E+00	97%	1.44E-03	< 1%
	Total energy consumed	9.54E+02	MJ	3.27E+01	3%	1.89E-01	< 1%	0.00E+00	0%	9.21E+02	97%	1.09E-01	< 1%
	Consumption of water	1.34E+02	dm3	1.58E+01	12%	1.79E-02	< 1%	0.00E+00	0%	1.19E+02	88%	8.05E-04	< 1%
tors	Depletion of natural resources	1.68E-14	années -1	1.62E-14	96%	2.57E-19	< 1%	0.00E+00	0%	6.14E-16	4%	1.58E-19	< 1%
0													

rs	of natural resources	1.68E-14	années -1	1.62E-14	96%	2.57E-19	< 1%	0.00E+00	0%	6.14E-16	4%	1.58E-19	< 1%
indicato	Toxicity of the air	1.19E+07	m³	5.30E+05	4%	2.81E+03	< 1%	0.00E+00	0%	1.14E+07	96%	2.14E+03	< 1%
Optional	Toxicity of the water	2.11E+01	dm³	7.94E-01	4%	2.08E-03	< 1%	0.00E+00	0%	2.03E+01	96%	3.31E-03	< 1%
ō	Production of hazardous waste	4.19E-02	kg	3.41E-02	81%	5.56E-06	< 1%	0.00E+00	0%	7.80E-03	19%	9.60E-09	< 1%

The environmental impacts of the Reference Product are representative of the products covered by the PEP.

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-2015-188-v1-en	Drafting rule: PEP-PCR-ed 2.1-FR-2 PSR-0005-ed1-FR-20	
Authorisation number of checker: VH02	p-ecopassport.org	
Date of issue: 06-2015	Validity period: 4 years	
Independent verification of the declaration and data, in accounternal \(\subseteq \) External \(\subseteq \)	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	PORT®	