La legrand

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Your usual Sales office www.legrand.com

Product Environmental Profile

ONE-PIECE PILOT LIGHT





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	Emitting a red light signal in the presence of a voltage of 230V for 30% of time during 10 years in accordance with IP69 and the IEC 60947-5-1 standard
Reference Product	
	Cat.No 024611
	Osmoz complet - voyant monobloc - LED intégrée - rouge - 230 V~

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

024600, 024601, 024605, 024606, 024610, 024611, 024602, 024603, 024604, 024607, 024608, 024609, 024611, 024612, 024613, 024614

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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	38 g (with	unit packaging)				
Plastics as % of weight		Metals as % of weight		Other as % of weight		
PA	26.5%	Steel	9.2%	Others electronics components	1.3%	
PC	10.4%	Other steel	2.6%	LED	1.3%	
Other plastic	0.7%	Copper alloys	<0,1%			
PU	0.4%					
				Packaging as % of weight		
				Wood	36.7%	
				Paper	10.9%	
Total plastics	38.0%	Total metals	11.8%	Total other and packaging	50.2%	

Estimated recycled material content: 12% by mass.



MANUFACTURE

This Reference Product comes from sites that have received ISO 14001 certification.



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 in Europe.

Packaging is compliant with european directive 2004/12/EU concerning packaging and packaging waste. At their end of life, its recyclability rate is 96 % (in % of the mass of the packaging).



INSTALLATION

For the installation of the product, only standard tools are needed.

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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 using industrial procedures. It does not prevalidate the effective use of this channel for end-of-life electrical and eletronic products.

Separated into:

- plastic materials (excluding packaging) : 35 %
- metal materials (excluding packaging) : 12 %
- other materials (excluding packaging) : 0 %
- packaging (all types of materials) :46%



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:

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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: active products; PSR-0005-ed2-2016 03 29 / § 3.13 / «Other equipments « Use scenario: For 10 years working life, contact function opened with a dissipated power of 0,992 W for 30% of the time and operation of the closed contact with a dissipated power of 0 W for 70% of the time Energy model: Electricity Mix; Europe 27, year 2002
End of life	The default end of life scenario maximizing the environmental impacts.
Software and database used	EIME V5 and its database «CODDE-2015-04»

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< 1%

< 1%

< 1%

< 1%

< 1%

< 1%

< 1%

< 1%

< 1%

< 1%

< 1%

			Raw material									
	Total for L	_ife cycle	manufact	ure	Distributi	on	Installatio	on	Use		End of life	è
Global warming	1.56E+01	kg~CO ₂ eq.	2.08E-01	1%	9.37E-04	< 1%	2.58E-04	< 1%	1.54E+01	99 %	2.15E-03	•
Ozone depletion	3.76E-06	kg~CFC-11 eq.	1.72E-08	< 1%	1.90E-12	< 1%	1.76E-12	< 1%	3.74E-06	100%	4.93E-11	
Acidification of soils and water	1.17E-01	kgSO2 eq.	3.58E-04	< 1%	4.21E-06	< 1%	1.26E-06	< 1%	1.16E-01	100%	8.30E-06	4
Water eutrophication	4.47E-03	kg∼PO₄³-eq.	9.82E-05	2%	9.68E-07	< 1%	1.36E-06	< 1%	4.36E-03	98 %	1.01E-05	•
Photochemical ozone formation	5.54E-03	kg~C ₂ H ₄ eq.	3.78E-05	< 1%	2.99E-07	< 1%	8.91E-08	< 1%	5.50E-03	99 %	6.45E-07	•
Depletion of abiotic resources - elements	2.67E-05	kgSb eq.	2.60E-05	97 %	3.75E-11	< 1%	1.12E-11	< 1%	7.01E-07	3%	1.32E-10	
Total use of primary energy	2.69E+02	MJ	3.42E+00	1%	1.26E-02	< 1%	3.39E-03	< 1%	2.66E+02	99 %	2.32E-02	•
Net use of fresh water	4.20E-02	m ³	1.82E-03	4%	8.39E-08	< 1%	8.05E-08	< 1%	4.01E-02	96 %	1.71E-06	
Depletion of abiotic resources - fossil fuels	1.61E+02	MJ	2.71E+00	2%	1.32E-02	< 1%	3.58E-03	< 1%	1.59E+02	98 %	3.04E-02	
Water pollution	6.80E+02	m ³	3.39E+01	5%	1.54E-01	< 1%	3.99E-02	< 1%	6.46E+02	95%	2.51E-01	•
Air pollution	6.79E+02	m ³	1.83E+01	3%	3.84E-02	< 1%	3.26E-02	< 1%	6.60E+02	97 %	2.37E-01	

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 (024611), the environmental impacts of each phase of the lifecycle are calculated with Manufacturing, distribution, installation and end of life phases take the same values and for Use phase are multiplied by following coefficient :

-for voltage = 24V, coef= 0.10; for voltage = 130V, coef= 0.63; for voltage = 230V, coef= 1.

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Registration N°: LGRP-00412-V01.01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0005-ed2-FR-2016 03 29»				
Verifier accreditation N°: VH02	Information and reference documents : www.pep-ecopassport.org				
Date of issue: 03-2017	Validity period: 5 years				
Independent verification of the declaration and data, in compliance wit Internal 🛛 External 🗌	h ISO 14025:2010				
The PCR review was conducted by a panel of experts chaired by Philipp	e Osset (SOLINNEN)				
The elements of the present PEP cannot be compared with elements from	m another program				
Document in compliance with ISO 14025 : 2010: «Environmental labels a declarations»					
Environmental data in alignment with EN 15804 : 2012 + A1 : 2013					