

Product Environmental Profile

360° switch sensor Mosaic - PIR - Ø 8 m - with 2 A contact for HVAC- white



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	Independently manage the opening and closing of a low voltage electrical circuit to 250V at a maximum current of 8.5A by infrared detection of a body through 360 ° and the brightness, according to IEC 60669-2-1 for commercial or similar purposes. This function is provided for 10 years.
Reference Product	 <p>Cat.No 048804 360° switch sensor Mosaic - PIR - Ø 8 m - with 2 A contact for HVAC- white</p>

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 • 048804

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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	380 g (all packaging included)				
Plastics as % of weight		Metals as % of weight		Other as % of weight	
PC	22.2%	Steel	8.9%	Electronics cards	15.9%
PE	1.1%				
Other plastics	<0.1%				
Packaging as % of weight					
PE	<0.1%			Paper	35.5%
				Wood	16.4%
Total plastics	23.3%	Total metals	8.9%	Total others	67.8%

Estimated recycled material content: 32% by mass.



■ MANUFACTURE

This Reference Product comes from sites that have received ISO14001 certification.



■ DISTRIBUTION

The Reference Product is therefore transported over an average distance of 435.99 km by road and 1387.02 km by ship and 5266.93 km by plane from our warehouse to the local point of distribution into the market all around the world

Packaging is compliant with applicable regulation. At their end of life, its recyclability rate is 98% (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. 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:

- PWB > 10cm² : 60 g

• Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 92%. 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) : 22%
- metal materials (excluding packaging) : 9%
- other materials (excluding packaging) : 10%
- packaging (all types of materials) : 51%



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 worldwide marketed products..

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

Unless otherwise specified, the energy models are those integrated in the modules used from the EIME database	
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	<ul style="list-style-type: none"> • Product category: active product. • Use scenario: in continuous operation at 100% of rated load 0.555W all the time. No EIME module available for the world wide electricity mix, so China Electricity mix used. • Energy model: Electricity Mix; China - 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	5.72E+01	kgCO₂ eq.	3.59E+00	6%	4.19E+00	7%	1.15E-02	< 1%	4.94E+01	86%	2.01E-02	< 1%
Ozone depletion	9.91E-07	kgCFC-11 eq.	5.91E-07	60%	6.41E-09	< 1%	6.36E-11	< 1%	3.94E-07	40%	4.72E-10	< 1%
Acidification of soils and water	7.55E-02	kgSO₂ eq.	9.08E-03	12%	1.27E-02	17%	5.52E-05	< 1%	5.36E-02	71%	7.74E-05	< 1%
Water eutrophication	2.28E-02	kg(PO₄)³⁻ eq.	5.73E-03	25%	2.80E-03	12%	4.76E-05	< 1%	1.42E-02	62%	9.31E-05	< 1%
Photochemical ozone formation	8.14E-03	kgC₂H₄ eq.	9.17E-04	11%	8.80E-04	11%	3.90E-06	< 1%	6.33E-03	78%	6.02E-06	< 1%
Depletion of abiotic resources - elements	9.26E-04	kgSb eq.	9.26E-04	100%	1.67E-07	< 1%	4.89E-10	< 1%	2.17E-07	< 1%	1.25E-09	< 1%
Total use of primary energy	9.30E+02	MJ	6.08E+01	7%	5.92E+01	6%	1.59E-01	< 1%	8.09E+02	87%	2.23E-01	< 1%
Net use of fresh water	4.76E-01	m³	4.20E-01	88%	3.91E-04	< 1%	2.90E-06	< 1%	5.52E-02	12%	1.63E-05	< 1%
Depletion of abiotic resources - fossil fuels	8.39E+02	MJ	3.23E+01	4%	5.89E+01	7%	1.56E-01	< 1%	7.47E+02	89%	2.01E-01	< 1%
Water pollution	3.72E+03	m³	5.65E+02	15%	6.90E+02	19%	1.81E+00	< 1%	2.46E+03	66%	2.33E+00	< 1%
Air pollution	5.57E+03	m³	3.53E+02	6%	8.38E+01	2%	1.19E+00	< 1%	5.13E+03	92%	2.25E+00	< 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.

For all products concerned (see § «products concerned»), take these impacts values.

Contact Legrand if you have any questions regarding the calculation of coefficients for impacts others than those presented in this PEP

Registration number: LGRP-01573-V01.01-EN	Drafting rules: PEP-PCR-ed3-2015 04 02 Supplemented by PSR-0005-ed2-2016 03 29
Verifier accreditation N°: VH18	Information and reference documents: www.pep-ecopassport.org
Date of issue: 07-2022	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006 Internal <input type="checkbox"/> External <input checked="" type="checkbox"/>	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)	
PEP are compliant with XP C08-100-1 : 2016 The elements of the present PEP cannot be compared with elements from another program	
Document in compliance with ISO 14025 : 2006: «Environmental labels and declarations. Type III environmental declarations»	



Environmental data in alignment with EN 15804: 2012 + A1 : 2013