

Product Environmental Profile

Motion sensors for 1 circuit - Motion sensors for passage areas without natural 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	Independently manage the opening and closure of a low voltage electrical circuit at 250 V at a maximum current of 4.3 A, 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	
	Cat.No 0 489 41
	360° motion sensor - IP 41 - 8 m - ceiling-mounting - PIR technology - cardboard.

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
• 0 489 41

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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:

- electronic card: 30 g

• Extended producer responsibility:

The sale of this product is subject to a contribution to eco-organisations in each country responsible for managing end-of-life products in the field of application of the European Waste Electronic and Electrical Equipment Directive.

• Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 89 %. 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) : 21 %
- metal materials (excluding packaging) : 2 %
- other materials (excluding packaging) : 11 %
- packaging (all types of materials) : 55 %



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:

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 product. • Use scenario: for a 10 years working life, in continuous operation at 100 % of rated load 0.75 W all the time. This modelling duration does not constitute a minimum durability requirement. • Energy model: Electricity Mix ; Europe 27 - 2002.
End of life	The default end of life scenario maximizing the impacts.
Software and database used	EIME V5 and its database «CODDE-2015-04»

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SELECTION OF ENVIRONMENTAL IMPACTS

	Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
Global warming	4.04E+01	kgCO ₂ eq.	1.59E+00	4 %	6.49E-03	< 1 %	6.04E-03	< 1 %	3.88E+01	96 %	8.35E-03	< 1 %
Ozone depletion	9.71E-06	kgCFC-11 eq.	2.82E-07	3 %	1.31E-11	< 1 %	4.52E-11	< 1 %	9.42E-06	97 %	2.09E-10	< 1 %
Acidification of soils and water	2.96E-01	kgSO ₂ eq.	2.36E-03	< 1 %	2.92E-05	< 1 %	2.89E-05	< 1 %	2.93E-01	99 %	3.19E-05	< 1 %
Water eutrophication	1.17E-02	kg[PO ₄] ³⁻ eq.	6.16E-04	5 %	6.70E-06	< 1 %	2.86E-05	< 1 %	1.10E-02	94 %	3.69E-05	< 1 %
Photochemical ozone formation	1.42E-02	kgC ₂ H ₄ eq.	3.24E-04	2 %	2.07E-06	< 1 %	2.05E-06	< 1 %	1.39E-02	98 %	2.49E-06	< 1 %
Depletion of abiotic resources - elements	2.81E-04	kgSb eq.	2.79E-04	99 %	2.60E-10	< 1 %	2.68E-10	< 1 %	1.77E-06	< 1 %	5.32E-10	< 1 %
Total use of primary energy	8.16E+02	MJ	3.02E+01	4 %	9.18E-02	< 1 %	8.67E-02	< 1 %	7.86E+02	96 %	1.28E-01	< 1 %
Net use of fresh water	1.12E-01	m ³	1.10E-02	10 %	5.81E-07	< 1 %	1.95E-06	< 1 %	1.01E-01	90 %	7.20E-06	< 1 %
Depletion of abiotic resources - fossil fuels	4.18E+02	MJ	1.83E+01	4 %	9.12E-02	< 1 %	8.42E-02	< 1 %	4.00E+02	96 %	1.19E-01	< 1 %
Water pollution	1.99E+03	m ³	3.64E+02	18 %	1.07E+00	< 1 %	9.25E-01	< 1 %	1.63E+03	82 %	9.50E-01	< 1 %
Air pollution	1.83E+03	m ³	1.60E+02	9 %	2.66E-01	< 1 %	7.01E-01	< 1 %	1.66E+03	91 %	9.75E-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.

Registration N°: LGRP-00151-V01.01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0005-ed1-2012 12 11»
Verifier accreditation N°: VH23	Information and reference documents : www.pep-ecopassport.org
Date of issue: 07-2016	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)	
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	

