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Your usual Sales office www.legrand.com

Product Environmental Profile

Lighting Management sensors for managing several circuits Lighting Management sensors for controllers for passage areas and working areas with 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 **■**

| Reference Product Cat. No 0 488 20 | Function | Allows to manage the circuit opening and closure of an associated controller, according to infrared and/or ultrasound detection of a body in a 360° detection area and brightness, according to IEC 60669-2-1 for commerci or similar purposes. This function is provided for 10 years. | | | | | | |
|--|-------------------|---|--|--|--|--|--|--|
| LIGHTING MANAGEMENT - Flush ceiling mounting PIR sensor, 360° areas. | Reference Product | | | | | | | |

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:

| Catalog | uo N | umh | orc |
|---------|------|-----|-----|
| Catalog | ue n | ump | ers |

• 0 488 20



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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.

| Total weight of | |
|-------------------|-----------------------------|
| Reference Product | 206 g (with unit packaging) |

| Plastics as % of weight | | Metals as % of weight | | Other as % of weight | | |
|-------------------------|--------|-----------------------|--------|---------------------------|--------|--|
| PC | 21.8 % | Steel | 11.8 % | Electronic card | 11.1 % | |
| PE | 0.4 % | | | | | |
| Other plastic | 0.1 % | | | | | |
| | | | | Packaging as % of weight | | |
| | | | | Paper (packaging) | 37.1 % | |
| | | | | Wood (packaging) | 15.8 % | |
| | | | | PE (packaging) | 1.5 % | |
| | | | | PP (packaging) | 0.4 % | |
| Total plastics | 22.3 % | Total metals | 11.8 % | Total other and packaging | 65.9 % | |

Estimated recycled material content: 36 % by mass.



■ MANUFACTURE **■**

This Reference Product comes from sites that have initiated an environmental 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, transport 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 95 % (in % of packaging weight).



INSTALLATION 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 I

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: 23 g

• Extended producer responsability:

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 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) : 21 % - metal materials (excluding packaging) : 12 % - other materials (excluding packaging) : 7 % : 52 % - packaging (all types of materials)



■ 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, 0.4 W 100 % of time. This modelling duration does not constitute a minimum durabilty requirement. Energy model: Electricity Mix; Europe 27 - 2002. | | | | | |
| End of life | ife The default end of life scenario maximizing the impacts. | | | | | |
| Software and database used | LEIME V5 and its database «CODDE-2015-0/» | | | | | |



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■ SELECTION OF ENVIRONMENTAL IMPACTS ■

| | Total for l | _ife cycle | Raw material a manufact | | Distributi | on | Installatio | on | Use | | End of life | • |
|---|-------------|-------------------------------------|-------------------------------|-------|------------|-------|-------------|-------|----------|--------------|-------------|-------|
| Global warming | 2.39E+01 | kgCO ₂ eq. | 2.46E+00 | 10 % | 3.74E-03 | < 1 % | 6.84E-03 | < 1 % | 2.15E+01 | 90 % | 9.85E-03 | < 1 % |
| Ozone depletion | 5.69E-06 | kgCFC-11 eq. | 4.76E-07 | 8 % | 7.57E-12 | < 1 % | 4.75E-11 | < 1 % | 5.21E-06 | 92 % | 2.22E-10 | < 1 % |
| Acidification of soils and water | 1.66E-01 | kgSO ₂ eq. | 3.60E-03 | 2 % | 1.68E-05 | < 1 % | 3.24E-05 | < 1 % | 1.62E-01 | 98 % | 3.82E-05 | < 1 % |
| Water eutrophication | 7.06E-03 | kg(PO ₄)³- eq. | 8.94E-04 | 13 % | 3.86E-06 | < 1 % | 2.88E-05 | < 1 % | 6.08E-03 | 86 % | 4.71E-05 | < 1 % |
| Photochemical ozone formation | 8.22E-03 | kgC ₂ H ₄ eq. | 5.41E-04 | 7 % | 1.19E-06 | < 1 % | 2.30E-06 | < 1 % | 7.67E-03 | 93 % | 2.22E-10 | < 1 % |
| Depletion of abiotic resources - elements | 8.35E-04 | kgSb eq. | 8.34E-04 | 100 % | 1.50E-10 | < 1 % | 3.01E-10 | < 1 % | 9.78E-07 | < 1 % | 5.99E-10 | < 1 % |
| Total use of primary energy | 4.85E+02 | МЛ | 4.98E+01 | 10 % | 5.28E-02 | < 1 % | 9.80E-02 | < 1 % | 4.35E+02 | 90 % | 1.49E-01 | < 1 % |
| Net use of fresh water | 7.86E-02 | m³ | 2.26E-02 | 29 % | 3.34E-07 | < 1 % | 2.03E-06 | < 1 % | 5.60E-02 | 7 1 % | 7.70E-06 | < 1 % |
| Depletion of abiotic resources - fossil fuels | 2.48E+02 | МЛ | 2.66E+01 | 11 % | 5.25E-02 | < 1 % | 9.55E-02 | < 1 % | 2.21E+02 | 89 % | 1.39E-01 | < 1 % |
| Water pollution | 1.36E+03 | m³ | 4.56E+02 | 34 % | 6.15E-01 | < 1 % | 1.05E+00 | < 1 % | 9.01E+02 | 66 % | 1.16E+00 | < 1 % |
| Air pollution | 1.16E+03 | m³ | 2.39E+02 | 21 % | 1.53E-01 | < 1 % | 7.22E-01 | < 1 % | 9.21E+02 | 79 % | 1.07E+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.

| Registration N°: LGRP-00076-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: 05-2016 | Validity period: 5 years | | | | |
| Independent verification of the declaration and data, in compliance value of the large value of the compliance value of the c | vith ISO 14025:2010 | | | | |
| The PCR review was conducted by a panel of experts chaired by Phil | ippe Osset (SOLINNEN) | | | | |
| The elements of the present PEP cannot be compared with elements | s from another program | | | | |
| Document in compliance with ISO 14025 : 2010: «Environmental laber declarations» | ls and declarations. Type III environmental | | | | |
| Environmental data in alignment with EN 15804 : 2012 + A1 : 2013 | | | | | |