

Product Environmental Profile Round HBNet motion detector



Company information

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A question concerning the Product Environmental Profile:
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References covered

Round HBNet motion detector, all versions, all colors

Methodology

This PEP has been performed according to the PCR version PEP-PCR-ed 2.1-FR-2012 12 11 issued by the PEP ecopassport program.□
For further information, please see the website of the program www.pep-ecopassport.org

Reference product

Reference product identification

Round HBNet motion detector, standard version, white color

Functional unit

Control lighting by detecting in motion within an angle up to 180°, during 10 years.

The functional unit is based on the use scenario recommended by the PCR for the category of the reference product.

Materials and substances

All useful measures have been adopted to ensure that the materials used in the composition of the product do not contain any substances banned by the legislation in force at the time of marketing.

Plastics			Metals			Other		
	g	%		g	%		g	%
ABS/PC	13,46	15,84%	Steel	0,8	0,94%	PCB + components	11,15	13,12%
ASA	5,14	6,05%				Cardboard + Paper	50,04	58,88%
PC	1,34	1,58%						
PE	2,26	2,66%						
POM	0,3	0,35%						
Other	0,49	0,58%						
Total mass of reference product :				84,96 g				

RoHS

All our products comply, on voluntary basis, with the restrictions on substances specified in the RoHS directive.

REACH

At the date of PEP release, the product doesn't contain, as far as we knew, any substance of the candidate list to authorization of the REACH regulation with a concentration above 0,1% w/w.

Manufacturing

These products are manufactured by a site that has received an environmental certification ISO 14001.

Distribution

The packaging has been designed in accordance with current regulations: European directive 94/62/CE relative to packaging and packaging waste.
The used packaging is 100% recyclable or recoverable.
Packaging and logistic flows are continuously improved in order to reduce their impact.

Installation

Installation processes

The processes to install the product are not considered in this study because of their weak impact compared to the other life cycles steps.

Installation elements (non delivered with the product)

Elements non delivered with the product and needed to install the product are not considered too.

Usage

For the considered scenario, the product has an average power of 0,0264W in active mode during 1% of the time and 0,0099W in sleep mode during 99% of the time. This corresponds to an energy consumption of 0,88kWh for the use span of 10 years.

Energy model of the usage phase : Europe

Consumables and maintenance : None

End of life

Considering the complexity and the lack of knowledge of the electric and electronic recycling channel and processes, we considered only a 1000 km transport of the product at end of life, as recommended by the PCR.

The recycling potential of the product is: 36%. The calculus of this rate is based on the Eco'DEEE method developed by CODDE BUREAU VERITAS.

Environmental impacts

Evaluation of the environmental impact covers the following life cycle stages: raw materials + manufacturing (RMM), distribution (D), installation (I), usage (U) and end of life (EoL).

All calculations are done with EIME software version 5.0 with the database version 11.0.

The environmental impact is considered to be the same for all the products covered by the PEP.

Indicateurs	Unité	Manufacturing RMM	Distribution D	Installation I	Usage U	Fin de vie EoL	GLOBAL
Raw Material Depletion	year -1	1,73E-14	8,67E-17	0,00E+00	7,03E-18	8,67E-20	1,74E-14
Energy Depletion	MJ	1,28E+01	5,98E+01	0,00E+00	1,05E+01	5,98E-02	8,32E+01
Water Depletion	dm3	1,23E+01	4,41E-01	0,00E+00	1,36E+00	4,41E-04	1,41E+01
Global Warming	g ~ CO2	6,41E+02	4,24E+03	0,00E+00	5,21E+02	4,24E+00	5,41E+03
Ozone Depletion	g ~ CFC11	1,12E-04	8,04E-06	0,00E+00	1,19E-04	8,04E-09	2,39E-04
Air Toxicity	m3	1,77E+05	1,17E+06	0,00E+00	1,30E+05	1,17E+03	1,48E+06
Photochemical Ozone Creation	g ~ C2H4	2,53E-01	9,46E-01	0,00E+00	3,22E-02	9,46E-04	1,23E+00
Air Acidification	g ~ H+	1,39E-01	7,89E-01	0,00E+00	1,12E-01	7,89E-04	1,04E+00
Water Toxicity	dm3	1,89E+02	1,81E+03	0,00E+00	2,32E+02	1,81E+00	2,24E+03
Water Eutrophication	g ~ PO43-	4,62E-02	7,89E-03	0,00E+00	4,95E-03	7,89E-06	5,90E-02
Hazardous Waste Production	kg	2,55E-02	5,25E-06	0,00E+00	8,94E-05	5,25E-09	2,56E-02

Verification

Registration N°: HAGE-2013-005-V1-EN	Applicable PCR: PEP-PCR-ed 2.1-FR-2012 12 11
Verifier accreditation N°: VH03	Program information: www.pep-ecopassport.org
Date of publication: 27/02/2013	Period of validity: 4 years
Independent verification of the declaration and data, according to ISO 14025: 2006	
Internal <input checked="" type="radio"/> External <input type="radio"/>	
In compliance with ISO 14025 – 2006 standard type III environmental declarations	
PCR review was conducted by an expertpanel chaired by J. Chevalier (CSTB)	
The elements of the actual PEP cannot be compared with elements from another program	
	

Nota :

The picture has no contractual value.

All numerical values indicated in this document may vary and depend of many factors such as the tolerance related to materials, the usage and environment conditions of the products, installation characteristics,... Real values for a product in a concrete application may therefore change.

The usage time mentioned in this document is an average duration chosen for the need of the calculations. This value cannot be assimilated to the minimum, average or real life time.

The responsibility of the company, issuing this document, can never be engaged if differences would be noticed between the values given by this document and real ones, whatever the causes and/or consequences would be.