Product Environmental Profile

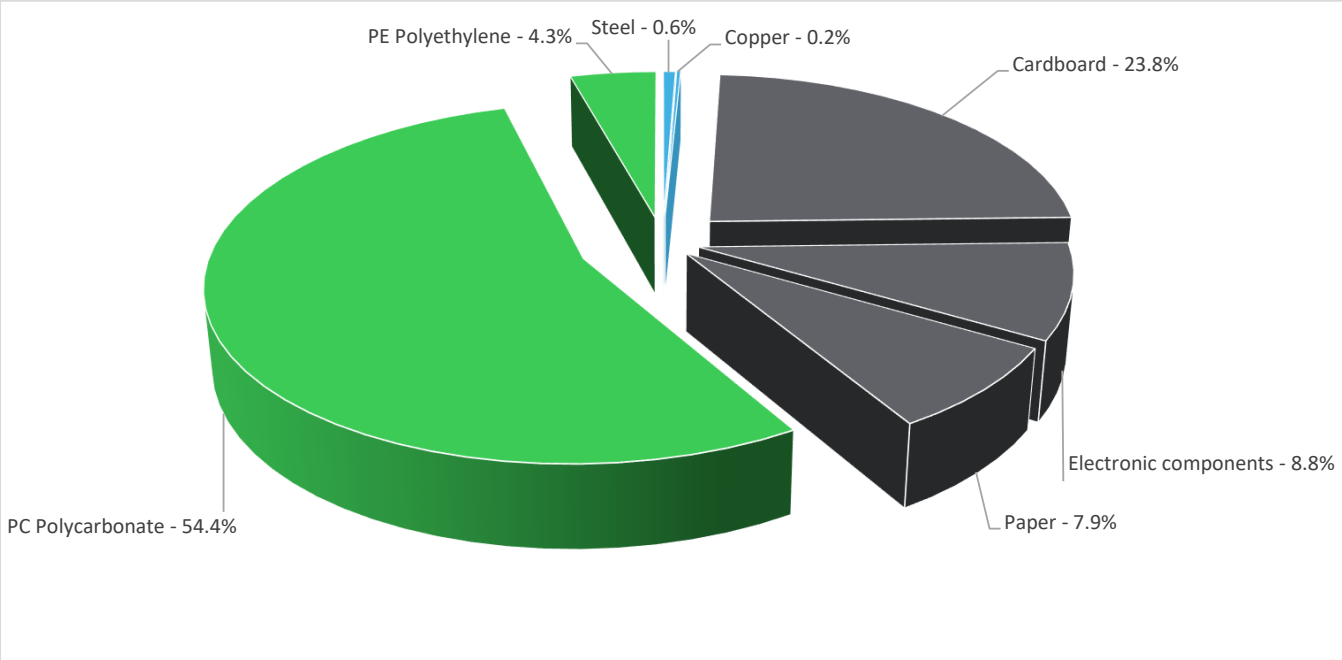
KNX High Bay Presence Detector

General information

Representative product	KNX High Bay Presence Detector - MTN6354-0019
Description of the product	To be used for switching light ON and OFF automatically. The motion detector is equipped with pyro sensors that detect the invisible heat emitted from moving objects (people, animals etc.). The heat detected in this way is converted electronically into a signal to control the connected load (e.g. a light) via the KNX system and settings. The built-in red LED also lights up.
Functional unit	To control lighting as well as HVAC during 10 years, e.g. in offices, schools, public buildings or at home, in relation to ambient light level and the presence of persons. The function unit is accordance with the following technical data: - Power supply: KNX bus voltage, 21 V-30 V (SELV) - Angle of coverage: 360° with 180° angle of aperture - IP54

Constituent materials

Reference product mass	251.4 g	including the product, its packaging and additional elements and accessories



	Plastics	58.7%
	Metals	0.8%
	Others	40.5%

Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) as mentioned in the Directive

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website
http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page

Additional environmental information

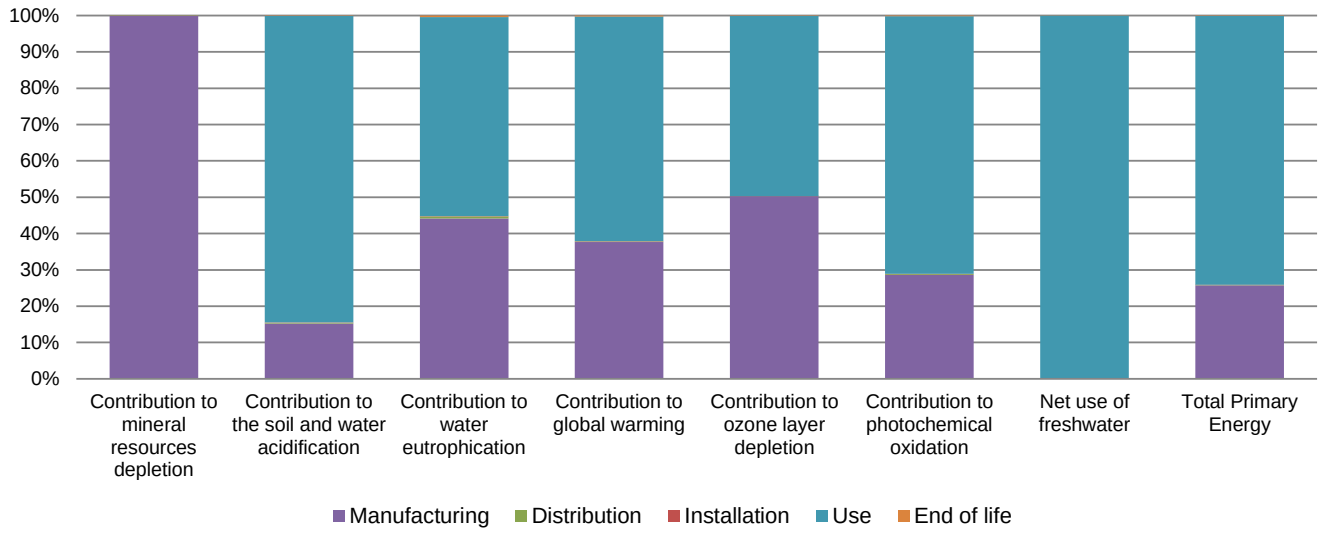
The KNX High Bay Presence Detector presents the following relevent environmental aspects	
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 81.1 g, consisting of cardboard (74.0%), paper (24.7%), PE film (1.36%)
Installation	Reference MTN6354-0019 does not require any installation operations. Packaging waste is considered in installation.
Use	The product does not require special maintenance operations.
End of life	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials This product contains electronic card (21g) that should be separated from the stream of waste so as to optimize end-of-life treatment. The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page Recyclability potential: **61%** Based on “ECO’DEEE recyclability and recoverability calculation method” (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

Environmental impacts

Reference life time	10 years
Product category	Other equipments - Active product
Installation elements	No special installation components need during installation phase, but transport of packaging to disposal, and disposal of packaging accounted for during installation.
Use scenario	The product is in active mode 50% of the time with a power use of 0.36W and in stand-by mode 50% of the time with a power use of 0.2W, for 10 years
Geographical representativeness	Europe
Technological representativeness	To be used for switching light ON and OFF automatically. The motion detector is equipped with pyro sensors that detect the invisible heat emitted from moving objects (people, animals etc.). The heat detected in this way is converted electronically into a signal to control the connected load (e.g. a light) via the KNX system and settings. The built-in red LED also lights up.

Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Energy model used: Romania	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators	**KNX High Bay Presence Detector - MTN6354-0019**						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.08E-03	1.08E-03	0*	0*	1.04E-06	0*
Contribution to the soil and water acidification	kg SO_2 eq	5.94E-02	9.04E-03	1.48E-04	1.85E-05	5.01E-02	6.10E-05
Contribution to water eutrophication	kg PO_4^{3-} eq	5.53E-03	2.44E-03	3.41E-05	4.81E-06	3.03E-03	2.23E-05
Contribution to global warming	kg CO_2 eq	1.94E+01	7.33E+00	3.24E-02	4.44E-03	1.20E+01	5.72E-02
Contribution to ozone layer depletion	kg CFC11 eq	1.58E-06	7.94E-07	0*	0*	7.83E-07	2.12E-09
Contribution to photochemical oxidation	kg C_2H_4 eq	3.88E-03	1.11E-03	1.06E-05	1.38E-06	2.75E-03	5.86E-06
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	4.36E+01	3.53E-02	0*	0*	4.36E+01	0*
Total Primary Energy	MJ	3.24E+02	8.35E+01	4.59E-01	5.78E-02	2.40E+02	2.83E-01



Optional indicators	KNX High Bay Presence Detector - MTN6354-0019						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2.00E+02	6.31E+01	4.56E-01	5.73E-02	1.36E+02	2.29E-01
Contribution to air pollution	m³	1.09E+03	5.70E+02	1.38E+00	1.84E-01	5.17E+02	2.04E+00
Contribution to water pollution	m³	1.88E+03	1.37E+03	5.33E+00	6.70E-01	4.96E+02	3.18E+00
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.41E-03	1.41E-03	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	3.45E+01	3.96E+00	0*	0*	3.05E+01	0*
Total use of non-renewable primary energy resources	MJ	2.90E+02	7.95E+01	4.58E-01	5.77E-02	2.09E+02	2.83E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3.29E+01	2.43E+00	0*	0*	3.05E+01	0*
Use of renewable primary energy resources used as raw material	MJ	1.53E+00	1.53E+00	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.84E+02	7.41E+01	4.58E-01	5.77E-02	2.09E+02	2.83E-01
Use of non renewable primary energy resources used as raw material	MJ	5.39E+00	5.39E+00	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Waste categories	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	3.20E+00	2.93E+00	0*	0*	6.27E-03	2.61E-01
Non hazardous waste disposed	kg	4.66E+01	1.81E+00	0*	0*	4.48E+01	0*
Radioactive waste disposed	kg	3.10E-02	1.04E-03	0*	0*	2.99E-02	0*
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2.07E-01	2.29E-02	0*	7.99E-02	0*	1.04E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.29E-02	0*	0*	0*	0*	1.29E-02
Exported Energy	MJ	2.53E-04	2.38E-05	0*	2.29E-04	0*	0*

** represents less than 0.01% of the total life cycle of the reference flow*

Life cycle assessment performed with EIME version EIME v5.8.1, database version 2016-11 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

Registration number :	SCHN-00443-V01.01-EN	*Drafting rules*	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH33	*Supplemented by*	PSR-0005-ed2-EN-2016 03 29
Date of issue	02/2019	*Information and reference documents*	www.pep-ecopassport.org
		Validity period	5 years

Independent verification of the declaration and data, in compliance with ISO 14025 : 2010

Internal External X

The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)

PEP are compliant with XP C08-100-1 :2014

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 »

Schneider Electric Industries SAS

Country Customer Care Center
http://www.schneider-electric.com/contact

35, rue Joseph Monier

CS 30323

F- 92506 Rueil Malmaison Cedex

RCS Nanterre 954 503 439
Capital social 896 313 776 €

www.schneider-electric.com

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