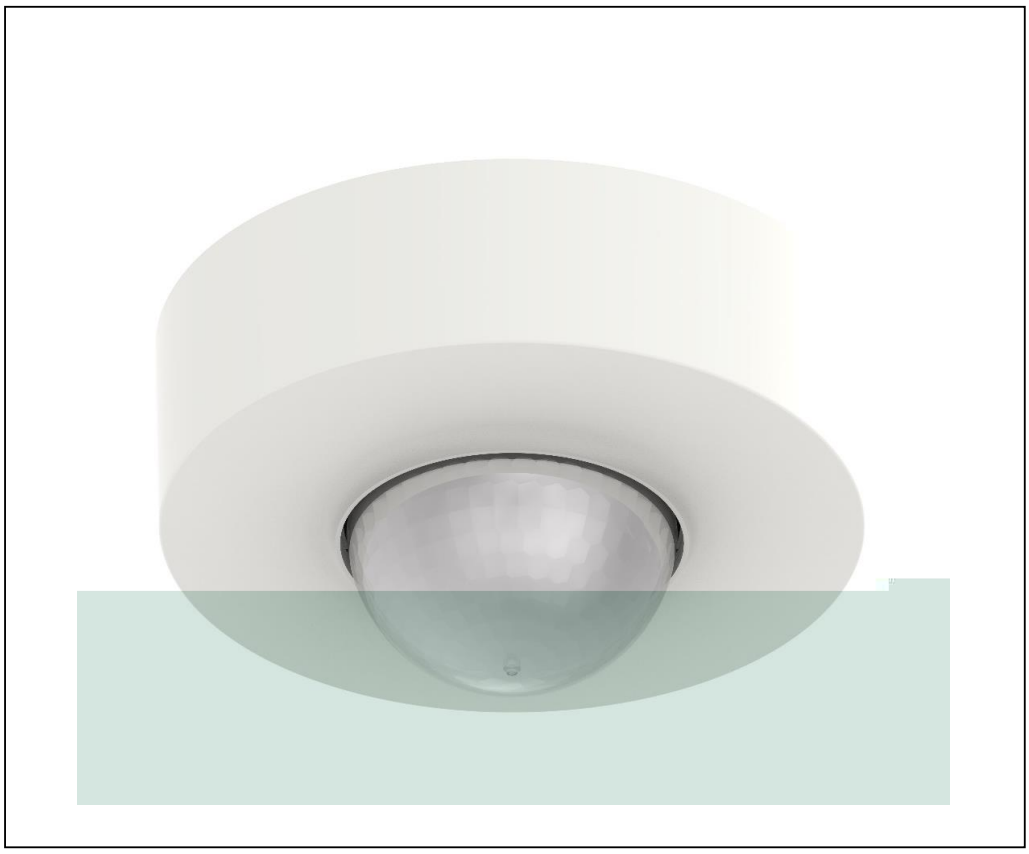
Product Environmental Profile

KNX High Bay Presence Detector

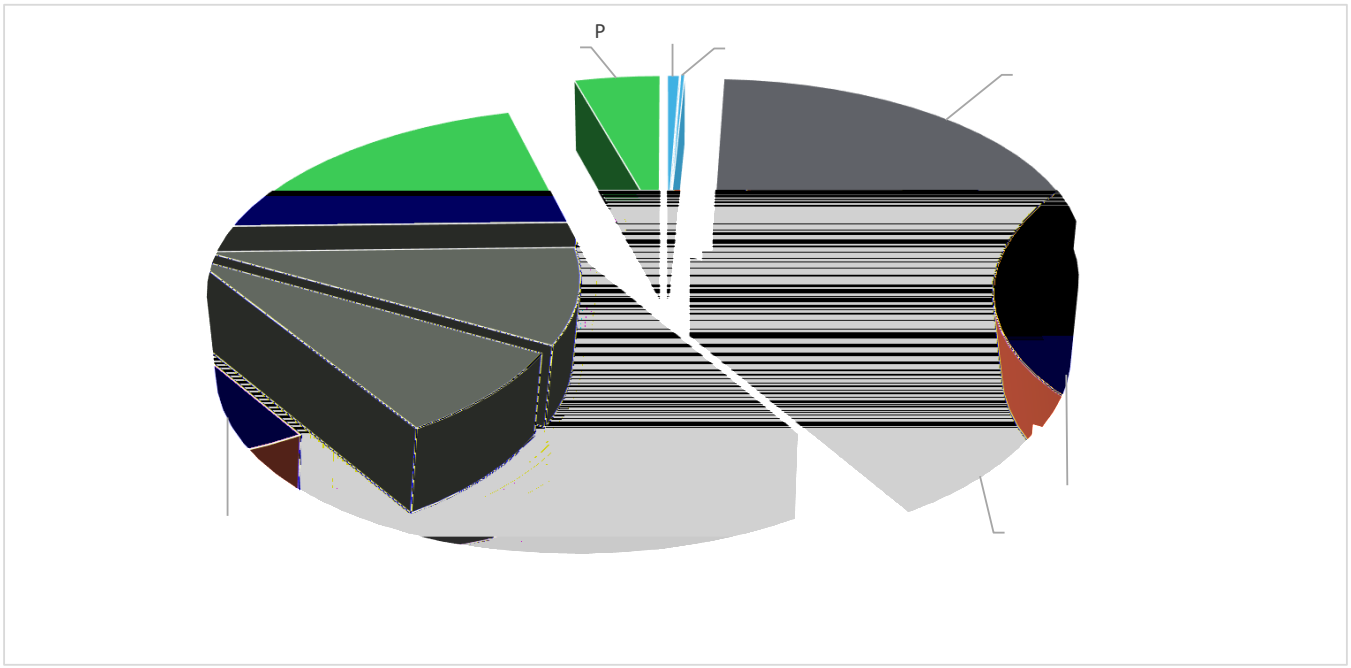


General information

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



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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%** (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

	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
	MJ	2.00E+02	6.31E+01	4.56E-01	5.73E-02	1.36E+02	2.29E-01
	m³	1.09E+03	5.70E+02	1.38E+00	1.84E-01	5.17E+02	2.04E+00
	m³	1.88E+03	1.37E+03	5.33E+00	6.70E-01	4.96E+02	3.18E+00
	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
	kg	1.41E-03	1.41E-03	0*	0*	0*	0*
	MJ	3.45E+01	3.96E+00	0*	0*	3.05E+01	0*
	MJ	2.90E+02	7.95E+01	4.58E-01	5.77E-02	2.09E+02	2.83E-01
	MJ	3.29E+01	2.43E+00	0*	0*	3.05E+01	0*
	MJ	1.53E+00	1.53E+00	0*	0*	0*	0*
	MJ	2.84E+02	7.41E+01	4.58E-01	5.77E-02	2.09E+02	2.83E-01
	MJ	5.39E+00	5.39E+00	0*	0*	0*	0*
	MJ	0.00E+00	0*	0*	0*	0*	0*
	MJ	0.00E+00	0*	0*	0*	0*	0*
	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
	kg	3.20E+00	2.93E+00	0*	0*	6.27E-03	2.61E-01
	kg	4.66E+01	1.81E+00	0*	0*	4.48E+01	0*
	kg	3.10E-02	1.04E-03	0*	0*	2.99E-02	0*
	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
	kg	2.07E-01	2.29E-02	0*	7.99E-02	0*	1.04E-0136

Registration number :	SCHN-00443-V01.01-EN	*Drafting rules*	PCR-ed3-EN-2015 04 02
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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 »

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