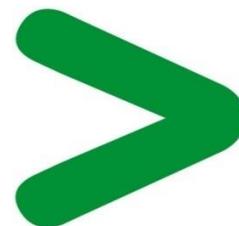


# Product Environmental Profile

## SpaceLogic KNX Universal Dimming Master





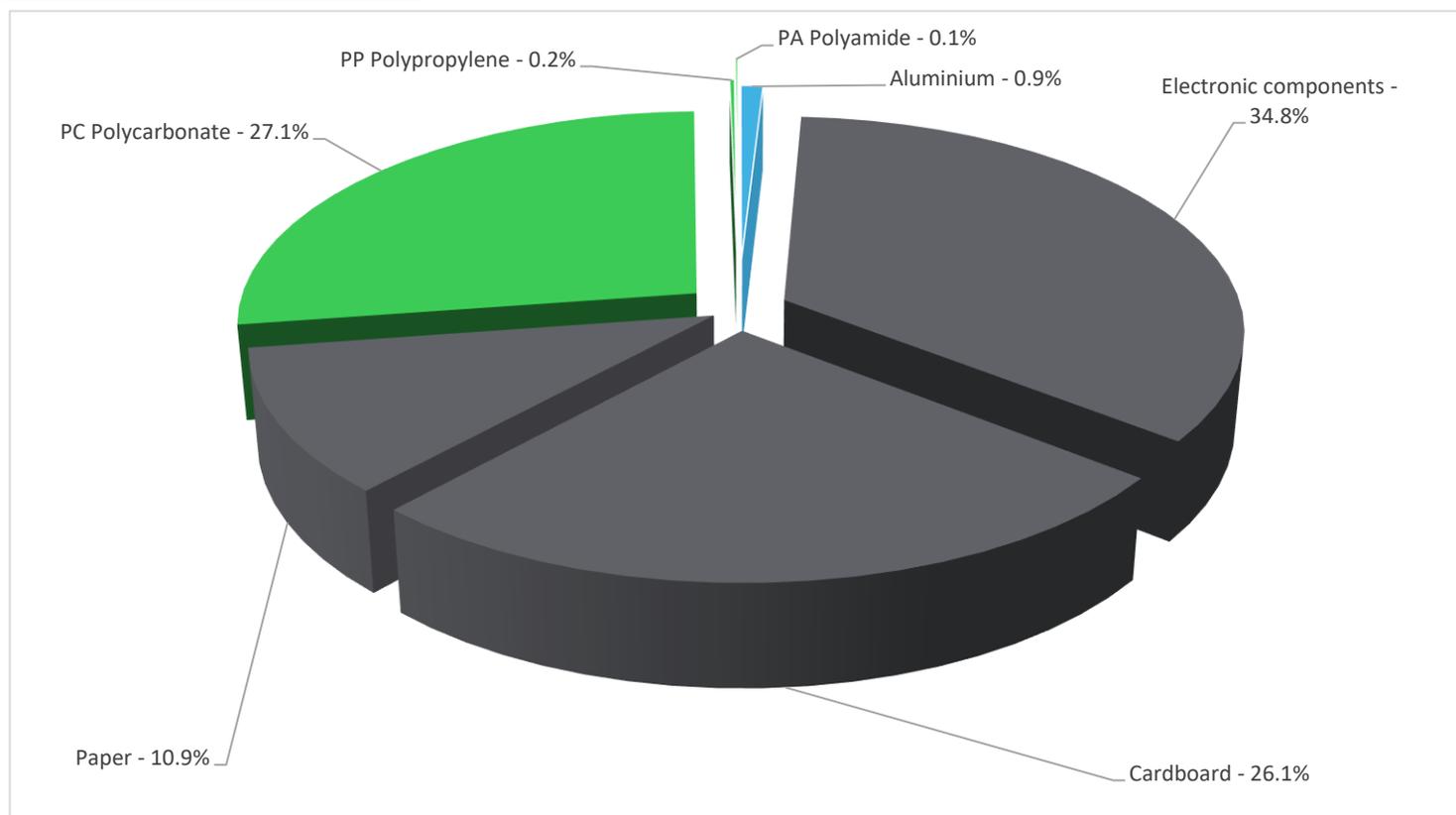
## General information

<b>Representative product</b>	SpaceLogic KNX Universal Dimming Master - MTN6710-0102
<b>Description of the product</b>	The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are Similar and representative of the actual type of technologies used to make the product in production.
<b>Functional unit</b>	Dimming up / down incandescent lamps, LED lams, etc. for 10 years and 100% use rate. <ul style="list-style-type: none"> <li>• EN 50428: EMC directive 2014 / 30 / EU + 2014/35/EU</li> <li>• EN 50491-3: 2014/35/EU</li> <li>• EN 50491-4-1: 2014/35/EU</li> <li>• EN 50491-5-1: EMC directive 2014 / 30 / EU</li> <li>• EN 50491-5-2: EMC directive 2014 / 30 / EU</li> <li>• EN 50581: 2011/65/EU</li> </ul>



## Constituent materials

**Reference product mass** 249 g including the product, its packaging and additional elements and accessories



Plastics	27.4%
Metals	0.9%
Others	71.8%

## 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

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

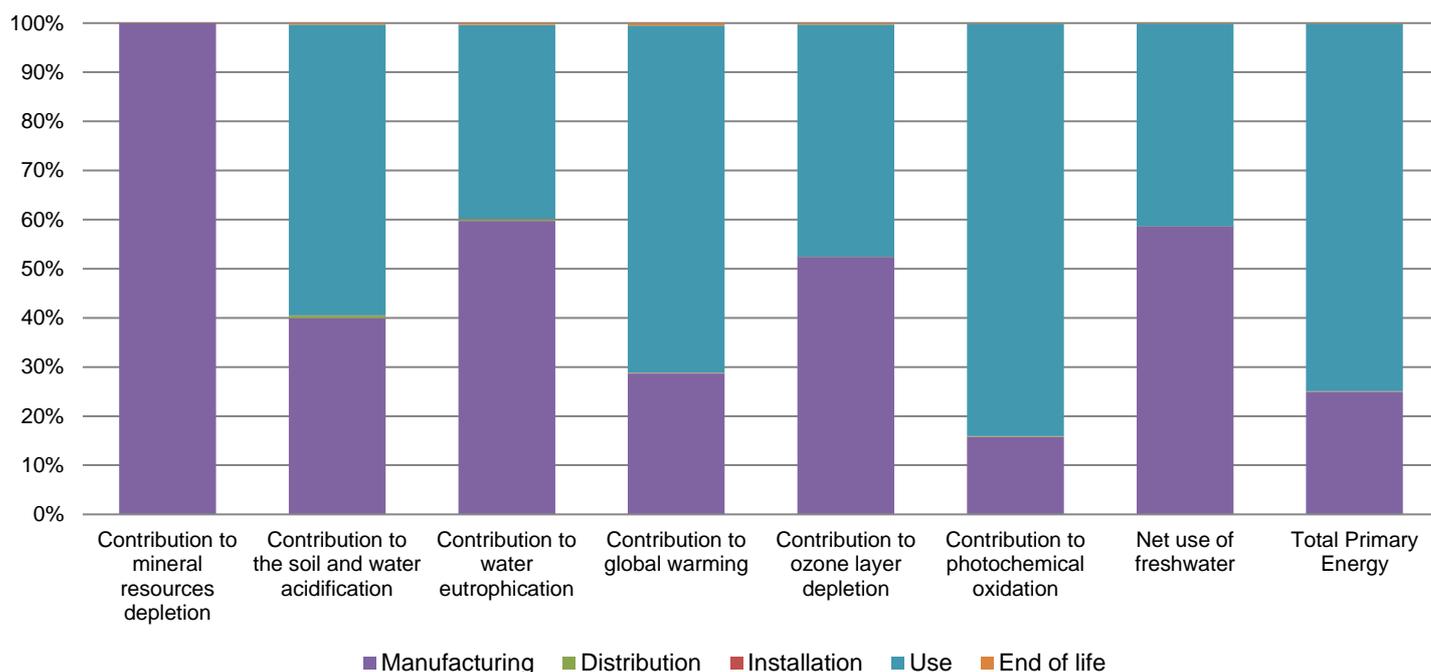
The SpaceLogic KNX Universal Dimming Master presents the following relevant environmental aspects

<b>Design</b>	Low power dissipation of dimming channels due to high performance MOSFET transistors and power terminals. We also use high efficiency KNX bus coupling unit to save energy.
<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 92.6 g, consisting of PP (1%), cardboard (72%), paper (27%)  Product distribution optimised by setting up local distribution centres
<b>Installation</b>	Ref MTN6710-0102 does not require any installation operations.
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials  This product contains electronic cards (29.3 g) 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  <a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page">http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</a>  Recyclability potential: <b>47%</b> 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

<b>Reference life time</b>	10 years			
<b>Product category</b>	Other equipments - Active product			
<b>Installation elements</b>	Packaging is being disposed during installation process.			
<b>Use scenario</b>	The product is in active mode 100% of the time with power use of 0.3W for 10 years.			
<b>Geographical representativeness</b>	Germany, China, Italy, Sweden, Norway, Spain, France, UAE, rest of Europe			
<b>Technological representativeness</b>	The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are Similar and representative of the actual type of technologies used to make the product in production.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: Latvia	Electricity mix; AC; consumption mix, at consumer; 230V; DE, 220V; CN, 230V; NO, 220V; IT	Electricity mix; AC; consumption mix, at consumer; 230V; DE, 220V; CN, 230V; NO, 220V; IT	Electricity mix; AC; consumption mix, at consumer; 230V; DE, 220V; CN, 230V; NO, 220V; IT

Compulsory indicators		SpaceLogic KNX Universal Dimming Master - MTN6710-0102					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.20E-03	1.20E-03	0*	0*	2.12E-07	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	2.77E-02	1.11E-02	1.47E-04	2.09E-05	1.64E-02	8.21E-05
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	1.10E-02	6.55E-03	3.38E-05	5.21E-06	4.33E-03	4.18E-05
Contribution to global warming	kg CO <sub>2</sub> eq	2.57E+01	7.38E+00	3.21E-02	5.03E-03	1.82E+01	1.33E-01
Contribution to ozone layer depletion	kg CFC11 eq	1.71E-06	8.97E-07	0*	0*	8.10E-07	4.65E-09
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	6.82E-03	1.07E-03	1.05E-05	1.57E-06	5.73E-03	6.70E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	7.12E-02	4.18E-02	0*	0*	2.94E-02	6.64E-05
Total Primary Energy	MJ	3.90E+02	9.74E+01	4.54E-01	6.56E-02	2.92E+02	3.49E-01



Optional indicators		SpaceLogic KNX Universal Dimming Master - MTN6710-0102					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2.99E+02	7.49E+01	4.51E-01	6.51E-02	2.23E+02	2.86E-01
Contribution to air pollution	m <sup>3</sup>	3.25E+03	6.64E+02	1.37E+00	0*	2.58E+03	2.51E+00
Contribution to water pollution	m <sup>3</sup>	1.48E+03	7.29E+02	5.28E+00	7.62E-01	7.39E+02	5.62E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	9.09E-02	9.09E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	3.56E+01	5.83E+00	0*	0*	2.98E+01	0*
Total use of non-renewable primary energy resources	MJ	3.54E+02	9.16E+01	4.54E-01	6.55E-02	2.62E+02	3.49E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3.56E+01	5.83E+00	0*	0*	2.98E+01	0*
Use of renewable primary energy resources used as raw material	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.51E+02	8.81E+01	4.54E-01	6.55E-02	2.62E+02	3.49E-01
Use of non renewable primary energy resources used as raw material	MJ	3.49E+00	3.49E+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	3.71E+00	2.50E+00	0*	0*	8.84E-01	3.22E-01
Non hazardous waste disposed	kg	4.59E+00	2.41E+00	1.14E-03	9.94E-04	2.18E+00	9.23E-04
Radioactive waste disposed	kg	1.73E-03	1.16E-03	8.13E-07	0*	5.65E-04	2.37E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.83E-01	1.69E-02	0*	9.19E-02	0*	7.38E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	3.63E-02	0*	0*	0*	0*	3.63E-02
Exported Energy	MJ	2.91E-04	2.74E-05	0*	2.64E-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 manufacturing 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.

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		<i>Validity period</i>	5 years
<i>Independent verification of the declaration and data, in compliance with ISO 14025 : 2010</i>			
<i>Internal</i>		<i>External</i>	X
<i>The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)</i>			
<i>PEP are compliant with XP C08-100-1 :2016</i>			
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »</i>			



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