

# Product Environmental Profile

## KNX PB SysD Univ. module





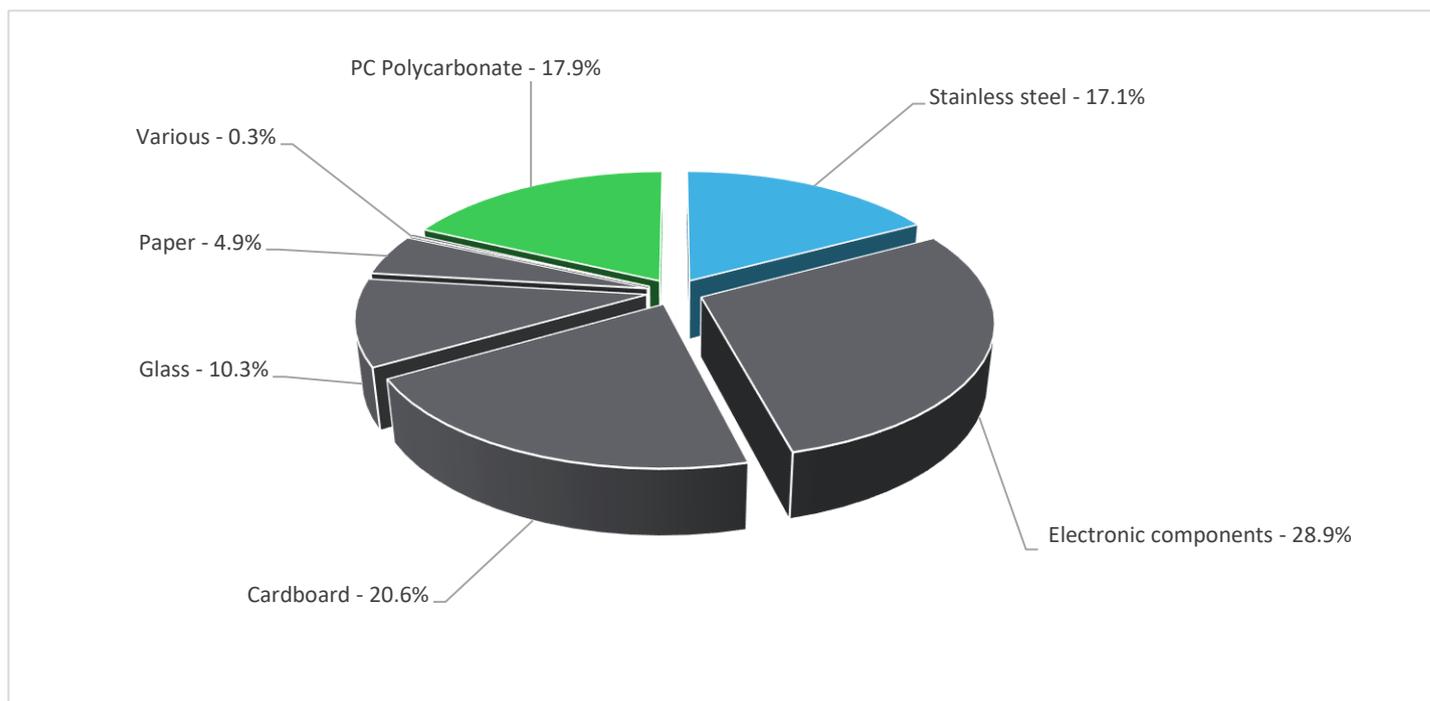
## General information

<b>Representative product</b>	KNX PB SysD Univ. module - MTN6194-6010
<b>Description of the product</b>	MERTEN KNX sensor button switch can be configured to different function by ETS tool.
<b>Functional unit</b>	<p>Within 10 years, the device is provided in the included KNX sensor pushbutton switch, which can be configured for different functions via the ETS tool. It complies with CE, KNX and CB Certification. The function unit is accordance with the following technical:</p> <ul style="list-style-type: none"> <li>- IP20</li> <li>- Operating temperature: -5 °C - +45 °C</li> <li>- Relative humidity: 10% - 93% no condensation</li> </ul>



## Constituent materials

**Reference product mass** 112 g including the product, its packaging and additional elements and accessories



Plastics	17.9%
Metals	17.1%
Others	65.0%



## Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) 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), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) 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

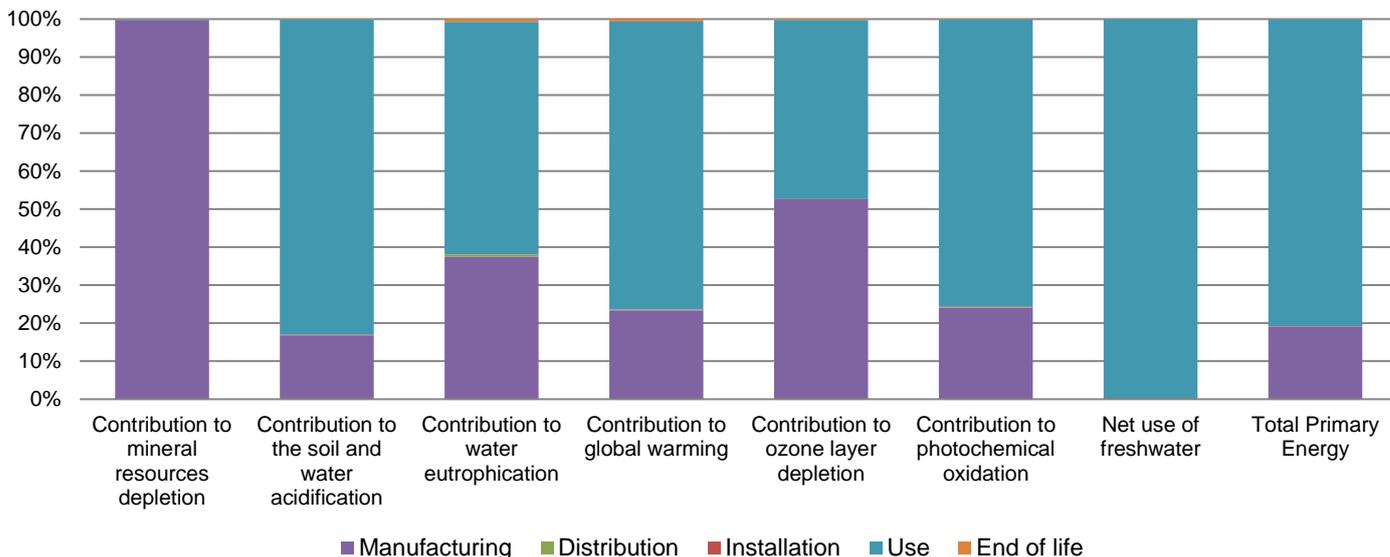
The KNX PB SysD Univ. module presents the following relevant environmental aspects

<b>Manufacturing</b>	Manufactured at a production site complying with the regulations
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 29.1 g, consisting of cardboard(80.79%),paper(19.21%) Product distribution optimised by setting up local distribution centres
<b>Installation</b>	MTN6194-6010 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 card (33g) 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>27%</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>	No special components needed			
<b>Use scenario</b>	The product is in active mode 10% of the time with a power use of 0.384W and in stand-by mode 90% of the time with a power use of 0.12W, for 10 years			
<b>Geographical representativeness</b>	Europe			
<b>Technological representativeness</b>	MERTEN KNX sensor button switch can be configured to different function by ETS tool.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: China	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 PB SysD Univ. module - MTN6194-6010					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2.41E-04	2.40E-04	0*	0*	5.46E-07	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	3.16E-02	5.32E-03	6.60E-05	6.57E-06	2.62E-02	4.00E-05
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	2.59E-03	9.67E-04	1.52E-05	1.60E-06	1.58E-03	1.88E-05
Contribution to global warming	kg CO <sub>2</sub> eq	8.30E+00	1.94E+00	1.45E-02	1.58E-03	6.28E+00	5.72E-02
Contribution to ozone layer depletion	kg CFC11 eq	8.70E-07	4.59E-07	0*	0*	4.09E-07	2.05E-09
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	1.91E-03	4.61E-04	4.71E-06	4.91E-07	1.44E-03	3.40E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m <sup>3</sup>	2.28E+01	1.40E-02	0*	0*	2.28E+01	0*
Total Primary Energy	MJ	1.56E+02	2.98E+01	2.04E-01	2.06E-02	1.25E+02	1.73E-01



Optional indicators		KNX PB SysD Univ. module - MTN6194-6010					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	8.64E+01	1.47E+01	2.03E-01	2.04E-02	7.13E+01	1.42E-01
Contribution to air pollution	m <sup>3</sup>	4.51E+02	1.79E+02	6.15E-01	6.29E-02	2.70E+02	1.25E+00
Contribution to water pollution	m <sup>3</sup>	5.72E+02	3.07E+02	2.38E+00	2.39E-01	2.59E+02	2.56E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	2.48E-02	2.48E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.68E+01	8.34E-01	0*	0*	1.60E+01	0*
Total use of non-renewable primary energy resources	MJ	1.39E+02	2.90E+01	2.04E-01	2.06E-02	1.10E+02	1.73E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.66E+01	6.68E-01	0*	0*	1.60E+01	0*
Use of renewable primary energy resources used as raw material	MJ	1.66E-01	1.66E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.38E+02	2.80E+01	2.04E-01	2.06E-02	1.10E+02	1.73E-01
Use of non renewable primary energy resources used as raw material	MJ	1.02E+00	1.02E+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	5.21E+00	5.03E+00	0*	0*	3.28E-03	1.80E-01
Non hazardous waste disposed	kg	2.42E+01	7.53E-01	0*	0*	2.34E+01	0*
Radioactive waste disposed	kg	1.88E-02	3.15E-03	0*	0*	1.56E-02	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	5.91E-02	6.92E-03	0*	2.90E-02	0*	2.32E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.52E-02	0*	0*	0*	0*	1.52E-02
Exported Energy	MJ	9.21E-05	8.65E-06	0*	8.34E-05	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.9.3, database version 2022-01 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.

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Date of issue	07/2022	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006			
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 :2016			
The elements of the present PEP cannot be compared with elements from another program.			
Document in compliance with ISO 14025 : 2006 « Environmental labels and declarations. Type III environmental declarations »			



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