Product Environmental Profile

KNX Push Button Pro
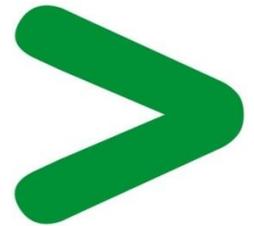
🗔 General information

Representative product	KNX Push Button Pro -MTN6180-0319
Description of the product	The main purpose of the KNX Push Button Pro is to offer the most complete and flexible push button solution to control the different applications integrated in the system. This range consists of electronic KNX push buttons with status feedback by LED and IR proximity detection.
Functional unit	The main function of the KNX Push Button Pro is to offer the most complete and flexible push button solution to control the different applications integrated in the system for 10 years.

Constituent materials

Reference product mass	80 g	including the product, its packaging and additional elements and accessories

Pie chart:
- nylon 66 granulate (PA 66) - 2%
- polyethylene low density (PE-LD) film - 1%
- polyethylene (PE) - 0.4%
- epoxy resin - 3.2%
- polyethylene terephthalate (PET) - 6.3%
- stainless - 25.5%
- copper - 3%
- polycarbonate (PC) - 27.7%
- tin - 1.2%
- aluminium - 1.1%
- tetrabromobisphenol A - 0.4%
- glass fibre - 4.3%
- electrolyte - 0.6%
- various - 2.8%
- paper - 5.5%
- cardboard 100% recycled - 15,1%
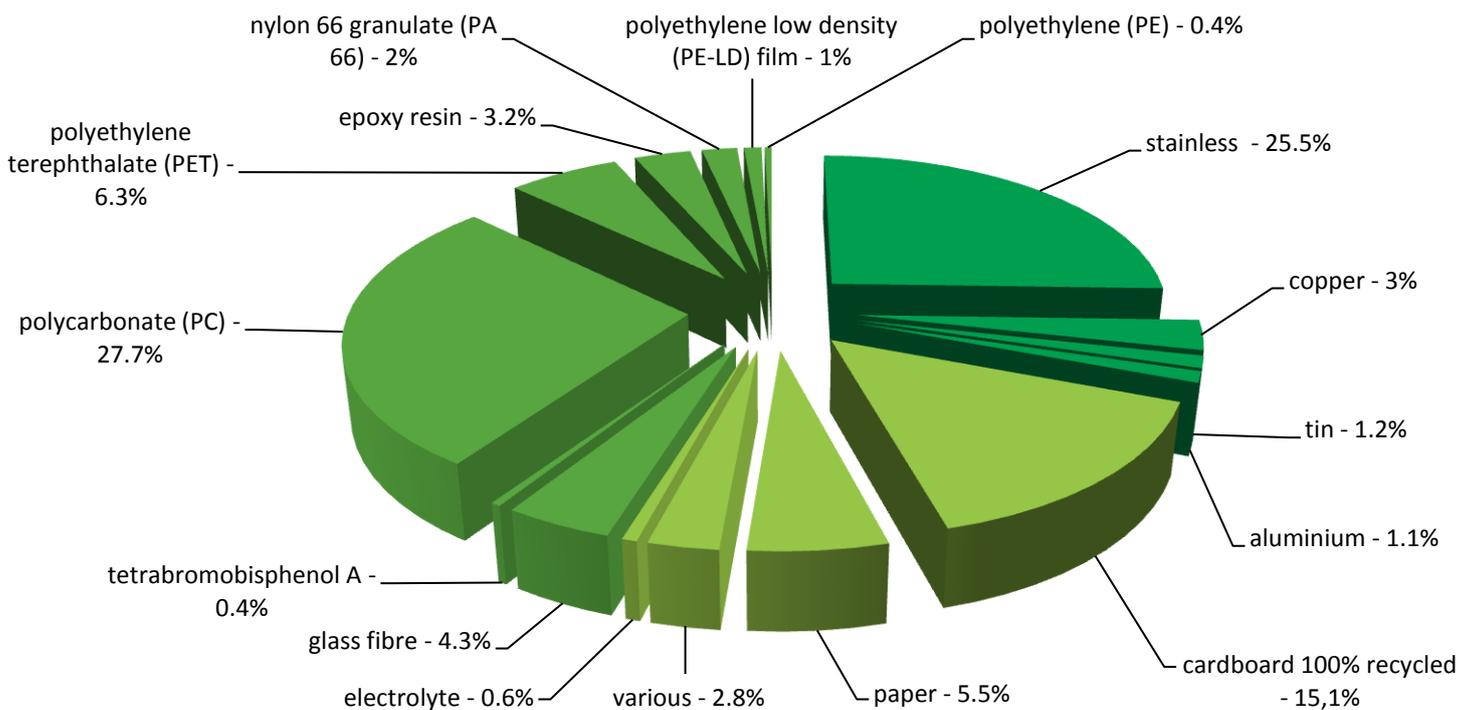
📏 Substance assessment

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 Push Button Pro presents the following relevent environmental aspects	
Design	
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 22,2 g, consisting of Cardboard (54.1%), Paper (43.3%), PE-LD Film (7.6%) and PET Film (49.1%) Product distribution optimised by setting up local distribution centres
Installation	KNX Push Button Pro does not require any installation operations.
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 2 electronic card (13.015 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 http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page Recyclability potential: **35%** 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	Active products
Installation elements	No special components needed
Use scenario	Consumed power is 0,44 W 100 % of the time in Active mode, W 0 % of the time in Standby mode, W 0 % of the time in Sleep mode and W 0 % of the time in Off mode.
Geographical representativeness	Europe
Technological representativeness	The main purpose of the KNX Push Button Pro is to offer the most complete and flexible push button solution to control the different applications integrated in the system. This range consists of electronic KNX push buttons with status feedback by LED and IR proximity detection.

	Manufacturing	Installation	Use	End of life
Energy model used	Energy model used: Riga - Latvia, Wiehl - Germany	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		KNX Push Button Pro - MTN6180-0319					
Impact indicators	**Unit**	**Total**	**Manufacturing**	**Distribution**	**Installation**	**Use**	**End of Life**
Contribution to mineral resources depletion	kg Sb eq	3,05E-04	3,04E-04	0*	0*	1,04E-06	0*
Contribution to the soil and water acidification	kg SO_2 eq	1,75E-01	2,95E-03	4,71E-05	0*	1,72E-01	1,90E-05
Contribution to water eutrophication	kg PO_4^{3-} eq	7,15E-03	6,51E-04	1,09E-05	3,31E-05	6,45E-03	6,18E-06
Contribution to global warming	kg CO_2 eq	2,44E+01	1,60E+00	1,03E-02	2,64E-02	2,28E+01	1,41E-02
Contribution to ozone layer depletion	kg CFC11 eq	5,68E-06	1,55E-07	0*	0*	5,53E-06	5,68E-10
Contribution to photochemical oxidation	kg C_2H_4 eq	8,45E-03	3,12E-04	3,36E-06	2,40E-06	8,13E-03	1,89E-06

Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	6,80E-02	8,65E-03	0*	2,15E-05	5,94E-02	9,95E-06
Total Primary Energy	MJ	4,84E+02	2,31E+01	1,46E-01	0*	4,61E+02	9,95E-02

■Manufacturing ■Distribution ■Installation ■Use ■End of life
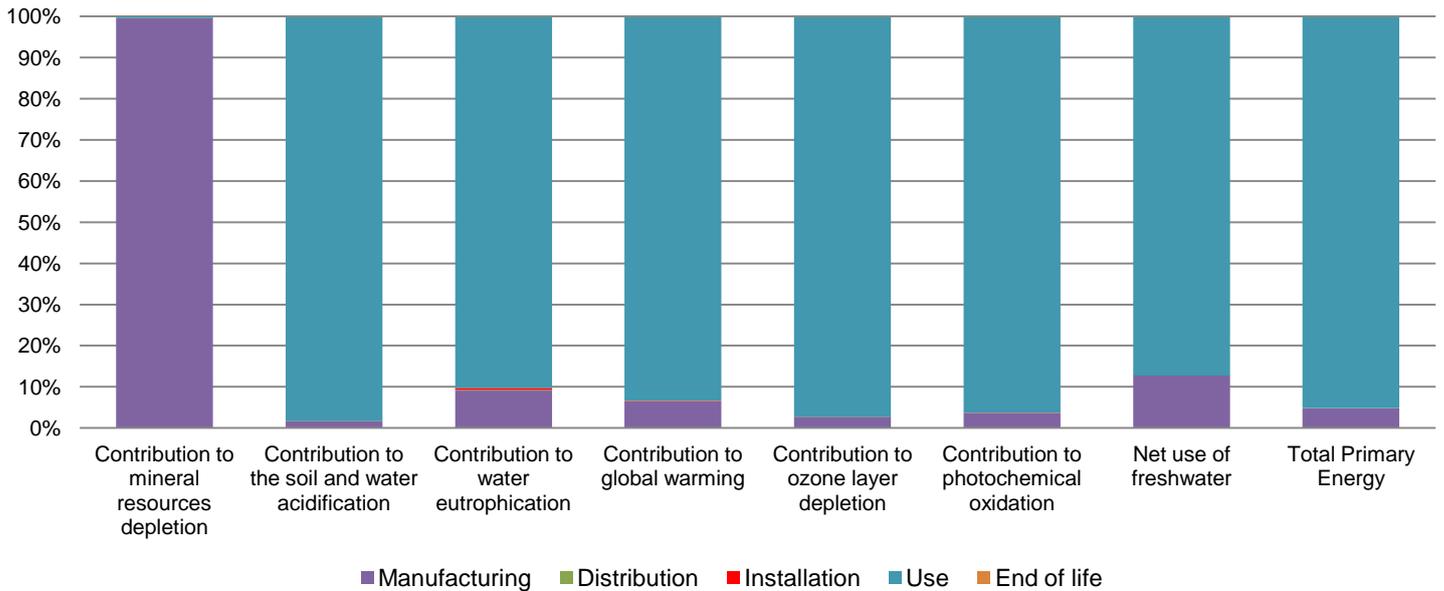
Optional indicators		KNX Push Button Pro - MTN6180-0319					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	2,53E+02	1,85E+01	1,45E-01	0*	2,34E+02	8,22E-02
Contribution to air pollution	m³	1,11E+03	1,37E+02	4,39E-01	0*	9,76E+02	6,50E-01
Contribution to water pollution	m³	1,22E+03	2,58E+02	1,70E+00	5,44E-01	9,55E+02	9,01E-01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	3,27E-02	3,27E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	3,34E+01	4,47E-01	0*	0*	3,30E+01	0*
Total use of non-renewable primary energy resources	MJ	4,51E+02	2,26E+01	1,46E-01	0*	4,28E+02	9,94E-02
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3,34E+01	3,82E-01	0*	0*	3,30E+01	0*
Use of renewable primary energy resources used as raw material	MJ	6,51E-02	6,51E-02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	4,50E+02	2,14E+01	1,46E-01	0*	4,28E+02	9,94E-02
Use of non renewable primary energy resources used as raw material	MJ	1,18E+00	1,18E+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	1,19E+00	1,09E+00	0*	0*	0*	9,86E-02
Non hazardous waste disposed	kg	8,55E+01	3,62E-01	0*	0*	8,51E+01	0*
Radioactive waste disposed	kg	6,95E-02	1,39E-04	0*	0*	6,94E-02	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2,25E-02	2,78E-03	0*	0*	0*	1,97E-02
Components for reuse	kg	1,12E-04	1,12E-04	0*	0*	0*	0*
Materials for energy recovery	kg	8,74E-03	2,14E-04	0*	5,77E-03	0*	2,75E-03
Exported Energy	MJ	4,64E-03	2,12E-03	0*	2,52E-03	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.5, database version 2015-04.

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 N°	SCHN-00101-V01.01-EN	*Drafting rules*	PCR-ed3-EN-2015 04 02
Verifier accreditation N°	VH08	*Supplemented by*	PSR-0005-ed2-EN-2016 03 29
Date of issue	07/2016	*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) *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 »*			PEP eco PASS PORT®

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Country Customer Care Center:

http://www2.schneider-electric.com/sites/corporate/en/support/operations/local-operations/local-operations.page

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