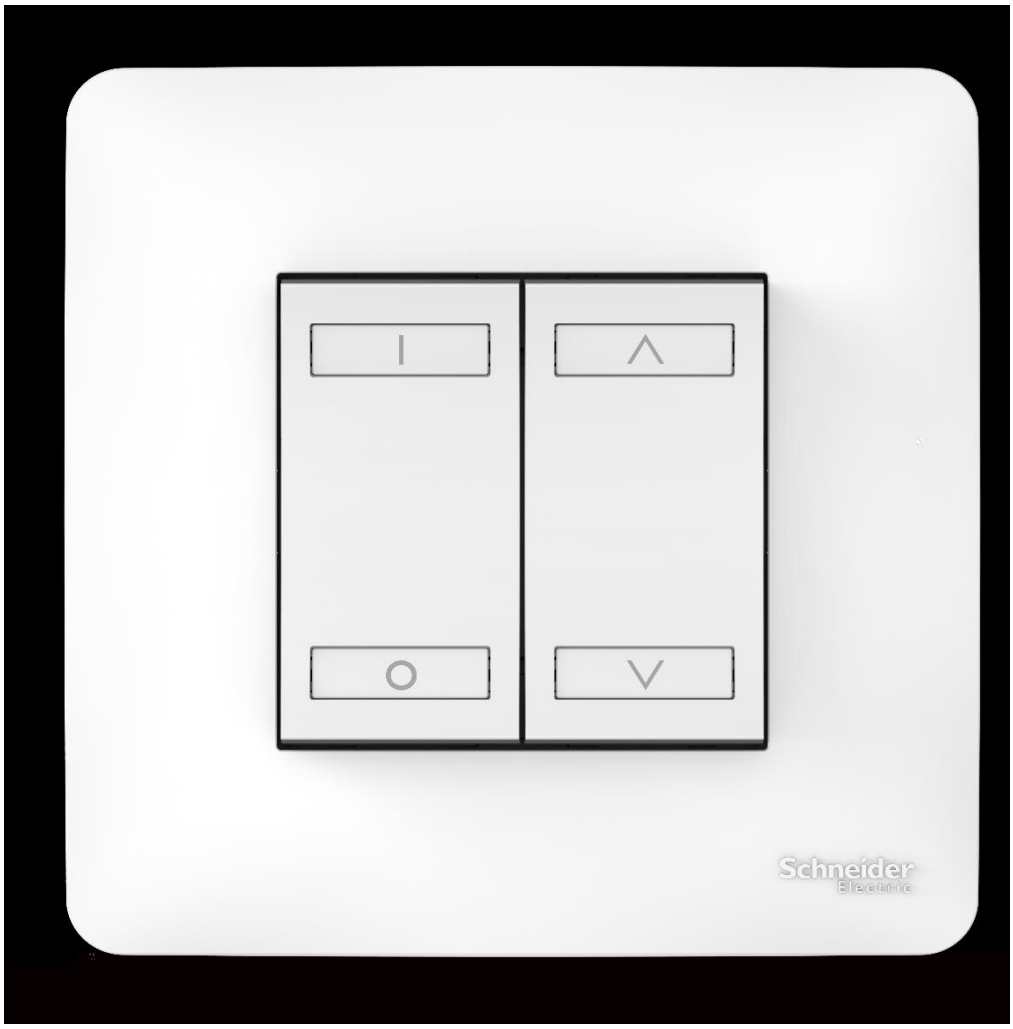
Product Environmental Profile

UNICA KNX PUSH BUTTON



Additional environmental information

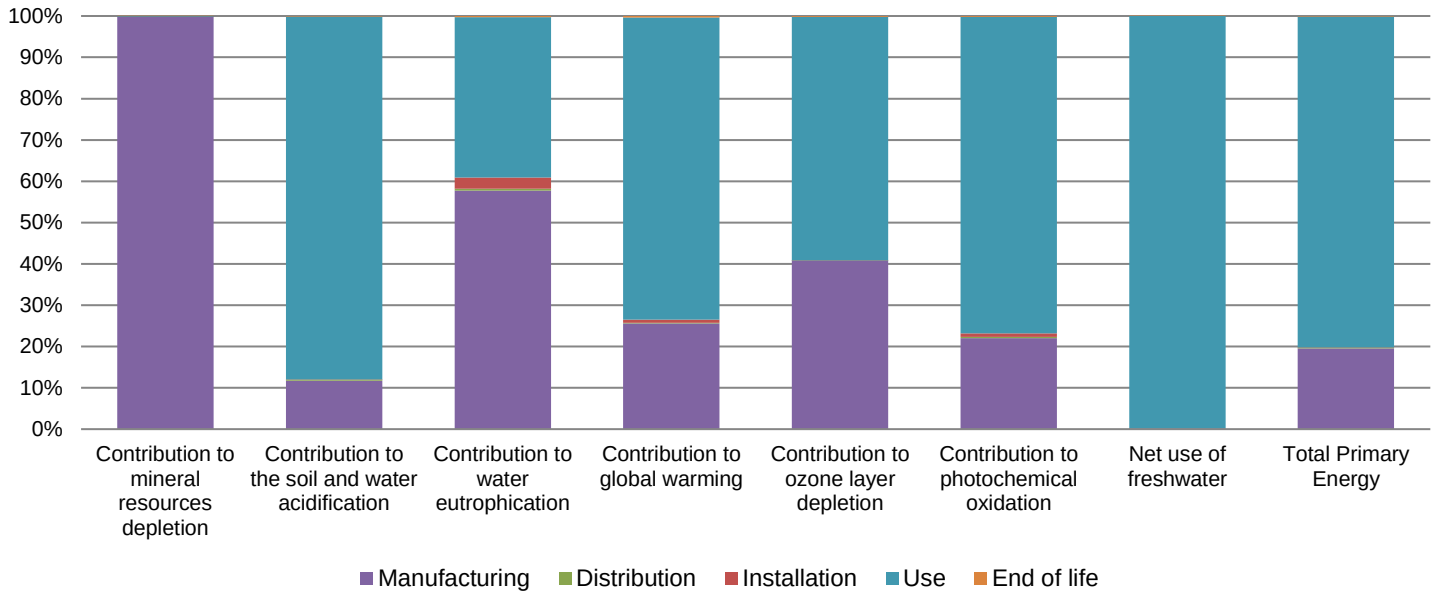
The UNICA KNX PUSH BUTTON presents the following relevent environmental aspects	
Design	UNICA KNX PUSH push buttons are part of the KNX offer, a system for building control which provides a lot of possibilities to save energy, like power saving functions for lighting, blind and Heating/Cooling if no people are present , i.e. daylight harvesting, shadowing, switch to energy saving temperature modes etc.
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 48,2 g, consisting of cardboard (72%), paper (23%), PE-LD film (4%), PP (0,5%), PET (0,5%). Product distribution optimised by setting up local distribution centres
Installation	Ref NU553118 to be completed with a design frame in corresponding design.
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 cards (17,8g) 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: **65%** 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	Packaging is being disposed during installation process.
Use scenario	The product is permanently in active operating mode and powered 100% of the time. Power consumption is depending only on the number of switch on backlighting LEDs. (1 to 4 blue LEDs) Nominal basic current consumption from KNX bus is 4.5 mA/24V DC. Every active backlighting LED add 0.5 mA more. Red programing LED add 1mA more. Red LED switch on in programing mode only. Maximum current consumption is 6.5 mA/24V during standard active operating mode. Average current consumption is 5.5 mA/24V during standard active mode. (2 blue LEDs are switch on, 2 LEDs are switch off). Average power consumption from KNX bus is 0.132W.
Technological representativeness	The means of material production, processing and transport modele are representative of technologies used in production.

Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Energy model used: Germany	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	**UNICA KNX PUSH BUTTON - NU553118**						
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	4,42E-04	4,42E-04	0*	0*	4,84E-07	0*
Contribution to the soil and water acidification	kg SO_2 eq	2,65E-02	3,10E-03	7,66E-05	6,71E-06	2,33E-02	3,06E-05
Contribution to water eutrophication	kg PO_4^{3-} eq	3,68E-03	2,12E-03	1,76E-05	1,01E-04	1,43E-03	1,15E-05
Contribution to global warming	kg CO_2 eq	7,80E+00	1,99E+00	1,68E-02	5,77E-02	5,70E+00	3,03E-02
Contribution to ozone layer depletion	kg CFC11 eq	6,20E-07	2,53E-07	0*	1,52E-10	3,66E-07	1,19E-09
Contribution to photochemical oxidation	kg C_2H_4 eq	1,70E-03	3,74E-04	5,47E-06	1,37E-05	1,30E-03	2,89E-06
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	2,01E+01	1,83E-02	0*	0*	2,01E+01	0*
Total Primary Energy	MJ	1,40E+02	2,74E+01	2,37E-01	1,70E-02	1,12E+02	1,41E-01



Optional indicators		UNICA KNX PUSH BUTTON - NU553118					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	9,04E+01	2,45E+01	2,36E-01	2,03E-02	6,55E+01	1,31E-01
Contribution to air pollution	m³	6,03E+02	3,54E+02	7,14E-01	4,25E-01	2,47E+02	1,01E+00
Contribution to water pollution	m³	4,79E+02	2,39E+02	2,76E+00	2,65E+00	2,33E+02	1,64E+00
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	3,19E-02	3,19E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1,57E+01	1,42E+00	0*	0*	1,43E+01	0*
Total use of non-renewable primary energy resources	MJ	1,24E+02	2,60E+01	2,37E-01	1,66E-02	9,78E+01	1,41E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1,55E+01	1,19E+00	0*	0*	1,43E+01	0*
Use of renewable primary energy resources used as raw material	MJ	2,23E-01	2,23E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1,23E+02	2,45E+01	2,37E-01	1,66E-02	9,78E+01	1,41E-01
Use of non renewable primary energy resources used as raw material	MJ	1,52E+00	1,52E+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	3,55E+00	3,42E+00	0*	0*	5,06E-03	1,26E-01
Non hazardous waste disposed	kg	2,15E+01	7,12E-01	0*	4,71E-02	2,07E+01	0*
Radioactive waste disposed	kg	1,42E-02	3,65E-04	0*	0*	1,38E-02	0*
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	6,46E-02	1,14E-02	0*	0*	0*	5,32E-02
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	9,36E-03	0*	0*	2,36E-03	0*	7,00E-03
Exported Energy	MJ	6,32E-03	1,36E-05	0*	6,30E-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 v5.8.0, 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.

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Verifier accreditation N°	VH33	*Supplemented by*	PSR-0005-ed2-EN-2016 03 29
Date of issue	11/2018	*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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