Product Environmental Profile

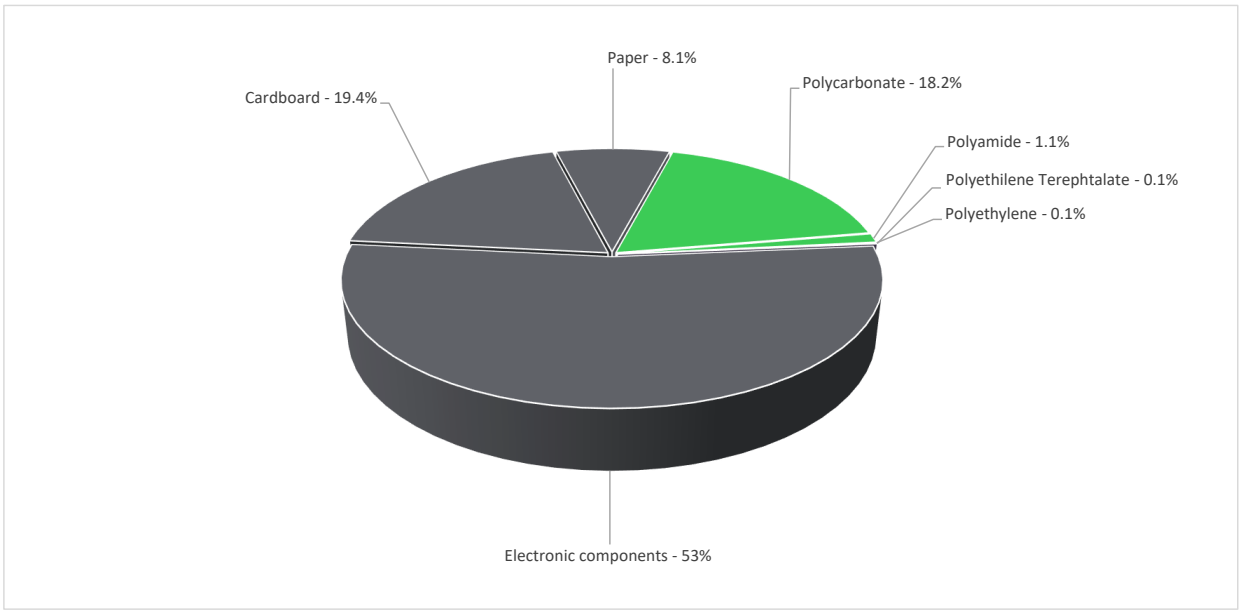
SpaceLogic KNX SWITCH / BLIND EXTENSION

General information

Reference product	SpaceLogic KNX Uni. Switch/Blind Extension 8ch 10AX/16AC1 - MTN6805-0008
Description of the product	In a KNX system, this device is categorized under actuator. It is an extension from the master actuator and allows to control a combination of up to 8 light circuits or 4 blinds and shutters.
Functional unit	This product is an actuator that switches a maximum of 8 loads (such as lamps) or controls a maximum of 4 blind motors with end switches manually using the master's buttons with voltage of 250 V and rated current 10A/16AX according to IEC669-2-2, while protecting the user from direct contact with live parts and with a protection class IP20 in accordance with IEC 60529 for the reference service life time of 10 years with the following dimensions 77mm x 124mm x 157mm

Constituent materials

Reference product mass	355 g	including the product and its packaging



Others	80.5%	
Plastics	19.5%	

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website
https://www.se.com/ww/en/work/support/green-premium/

Additional environmental information

Manufacturing	Manufactured at a production site complying with the regulations		
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Product distribution optimised by setting up local distribution centres		
Installation	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials is accounted during the installation phase (including transport to disposal) Packaging weight is 101.14 g, consisting of Cardboard (70.2%) , Paper (29.3%), PET Film (0.5%) Packaging recycled materials is 59% of total packaging mass (Recycled content in Cardboard 84%)		
Use	The product does not require special maintenance operations		
End Of Life	Recyclability potential:	**0%**	The recyclability rate was calculated from the recycling rates of each material making up the product with the exception of data using the ESR database. For materials or components using the ESR database or the absence of data the conservative hypothesis "0% recyclability" was used.

Environmental impacts

Reference service life time	10 years
Product category	Other equipments - Active product
Installation elements	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted during the installation phase (including transport to disposal).
Use scenario	The product is in active mode for 30% of the time with power use of 0.48W and in standby mode for 70% of the time with power use for 0.05W for the reference life time of 10 years
Time representativeness	The collected data are representative of the year 2023
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are Similar and représentaive of the actual type of technologies used to make the product.
Geographical representativeness	Europe

	[A1 - A3]	[A5]	[B6]	[C1 - C4]
Energy model used	Electricity Mix; Low voltage; 2018; Brazil, BR Electricity Mix; Low voltage; 2018; China, CN Electricity Mix; Low voltage; 2018; Europe, EU-27 Electricity Mix; Low voltage; 2018; France, FR Electricity Mix; Low voltage; 2018; Germany, DE	Electricity Mix; Low voltage; 2018; Europe, EU-27	Electricity Mix; Low voltage; 2018; Germany, DE Electricity Mix; Low voltage; 2018; China, CN Electricity Mix; Low voltage; 2018; Norway , NO Electricity Mix; Low voltage; 2018; Italy, IT	Electricity Mix; Low voltage; 2018; Europe, EU-27

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.schneider-electric.com/contact

Mandatory Indicators		SpaceLogic KNX SWITCH / BLIND EXTENSION - MTN6805-0008						
Impact indicators	**Unit**	**Total (without Module D)**	**[A1 - A3] - Manufacturing**	**[A4] - Distribution**	**[A5] - Installation**	**[B1 - B7] - Use**	**[C1 - C4] - End of life**	**[D] - Benefits and loads**
Contribution to climate change	kg CO2 eq	1.31E+01	3.43E+00	6.26E-01	1.08E-01	8.11E+00	8.17E-01	-3.23E-02
Contribution to climate change-fossil	kg CO2 eq	1.30E+01	3.36E+00	6.26E-01	1.03E-01	8.10E+00	8.17E-01	-2.88E-02
Contribution to climate change-biogenic	kg CO2 eq	7.39E-02	6.58E-02	0*	5.10E-03	2.99E-03	0*	-3.51E-03
Contribution to climate change-land use and land use change	kg CO2 eq	1.02E-04	1.02E-04	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.60E-06	1.01E-06	5.50E-07	1.40E-09	3.96E-08	6.56E-10	-9.17E-10
Contribution to acidification	mol H+ eq	8.76E-02	2.88E-02	2.57E-03	3.15E-04	5.53E-02	5.40E-04	-1.51E-04
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	2.20E-05	1.17E-05	7.29E-08	2.47E-06	3.23E-06	4.53E-06	-4.57E-07
Contribution to eutrophication marine	kg N eq	1.16E-02	4.04E-03	1.17E-03	1.37E-04	5.97E-03	2.71E-04	-4.59E-05
Contribution to eutrophication, terrestrial	mol N eq	1.37E-01	4.34E-02	1.27E-02	9.53E-04	7.74E-02	2.75E-03	-3.79E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.96E-02	1.48E-02	4.23E-03	2.18E-04	1.97E-02	6.66E-04	-9.89E-05
Contribution to resource use, minerals and metals	kg Sb eq	4.27E-03	4.27E-03	0*	0*	0*	0*	-3.02E-09
Contribution to resource use, fossils	MJ	2.11E+02	6.67E+01	7.75E+00	1.07E+00	1.35E+02	9.51E-01	-3.59E-01
Contribution to water use	m3 eq	2.14E+00	1.75E+00	3.16E-02	8.78E-03	3.25E-01	2.45E-02	-7.54E-03

Inventory flows Indicators		SpaceLogic KNX SWITCH / BLIND EXTENSION - MTN6805-0008						
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	4.01E+01	1.75E+00	0*	1.40E-01	3.82E+01	0*	9.49E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	7.80E-01	7.80E-01	0*	0*	0*	0*	-4.12E-01
Contribution to total use of renewable primary energy resources	MJ	4.09E+01	2.53E+00	0*	1.40E-01	3.82E+01	0*	-3.17E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.08E+02	6.32E+01	7.75E+00	1.07E+00	1.35E+02	9.51E-01	-3.49E-01
Contribution to use of non renewable primary energy resources used as raw material	MJ	3.51E+00	3.51E+00	0*	0*	0*	0*	-9.37E-03
Contribution to total use of non-renewable primary energy resources	MJ	2.11E+02	6.67E+01	7.75E+00	1.07E+00	1.35E+02	9.51E-01	-3.59E-01
Contribution to use of secondary material	kg	6.86E-02	6.86E-02	0*	0*	0*	0*	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to net use of freshwater	m^3	5.11E-02	4.21E-02	7.36E-04	2.05E-04	7.56E-03	5.71E-04	-1.76E-04
Contribution to hazardous waste disposed	kg	7.65E+00	7.24E+00	0*	2.68E-03	2.11E-01	1.94E-01	-8.60E-04
Contribution to non hazardous waste disposed	kg	2.92E+00	1.54E+00	6.34E-04	4.63E-02	1.26E+00	7.75E-02	-1.71E-02
Contribution to radioactive waste disposed	kg	4.66E-03	4.46E-03	1.24E-04	5.72E-06	6.26E-05	4.04E-06	-7.82E-06
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	4.22E-04	1.74E-06	0*	1.99E-04	0*	2.21E-04	0.00E+00
Contribution to materials for energy recovery	kg	9.60E-08	9.60E-08	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00

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

Contribution to biogenic carbon content of the product	kg de C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	3.11E-02

Mandatory Indicators		SpaceLogic KNX SWITCH / BLIND EXTENSION - MTN6805-0008							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	8.11E+00	0*	0*	0*	0*	0*	8.11E+00	0*
Contribution to climate change-fossil	kg CO2 eq	8.10E+00	0*	0*	0*	0*	0*	8.10E+00	0*
Contribution to climate change-biogenic	kg CO2 eq	2.99E-03	0*	0*	0*	0*	0*	2.99E-03	0*
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	3.96E-08	0*	0*	0*	0*	0*	3.96E-08	0*
Contribution to acidification	mol H+ eq	5.53E-02	0*	0*	0*	0*	0*	5.53E-02	0*
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	3.23E-06	0*	0*	0*	0*	0*	3.23E-06	0*
Contribution to eutrophication marine	kg N eq	5.97E-03	0*	0*	0*	0*	0*	5.97E-03	0*
Contribution to eutrophication, terrestrial	mol N eq	7.74E-02	0*	0*	0*	0*	0*	7.74E-02	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.97E-02	0*	0*	0*	0*	0*	1.97E-02	0*
Contribution to resource use, minerals and metals	kg Sb eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to resource use, fossils	MJ	1.35E+02	0*	0*	0*	0*	0*	1.35E+02	0*
Contribution to water use	m3 eq	3.25E-01	0*	0*	0*	0*	0*	3.25E-01	0*

Inventory flows Indicators		SpaceLogic KNX SWITCH / BLIND EXTENSION - MTN6805-0008							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	3.82E+01	0*	0*	0*	0*	0*	3.82E+01	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	3.82E+01	0*	0*	0*	0*	0*	3.82E+01	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.35E+02	0*	0*	0*	0*	0*	1.35E+02	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	1.35E+02	0*	0*	0*	0*	0*	1.35E+02	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m^3	7.56E-03	0*	0*	0*	0*	0*	7.56E-03	0*
Contribution to hazardous waste disposed	kg	2.11E-01	0*	0*	0*	0*	0*	2.11E-01	0*
Contribution to non hazardous waste disposed	kg	1.26E+00	0*	0*	0*	0*	0*	1.26E+00	0*
Contribution to radioactive waste disposed	kg	6.26E-05	0*	0*	0*	0*	0*	6.26E-05	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	0*	0*	0*	0*	0*

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

Life cycle assessment performed with EIME version v6.2, database version 2023-02 in compliance with ISO14044, EF 3.0 method is applied, for biogenic carbon storage, assessment methodology 0/0 is used

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 number :	ENVPEP2408004_V1	*Drafting rules*	PCR-4-ed4-EN-2021 09 06
Validity period	5 years	*Supplemented by*	PSR-0005-ed3.1-EN-2023 12 08
Date of issue	10-2024	*Information and reference documents*	www.pep-ecopassport.org

Independent verification of the declaration and data, in compliance with ISO 14021 : 2016

Internal X External

The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)

PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022

The components of the present PEP may not be compared with components from any other program.

Document complies with ISO 14021:2016 "Environmental labels and declarations. Type II environmental declarations"

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