

Product Environmental Profile

XB2 Pushbutton



Schneider
Electric

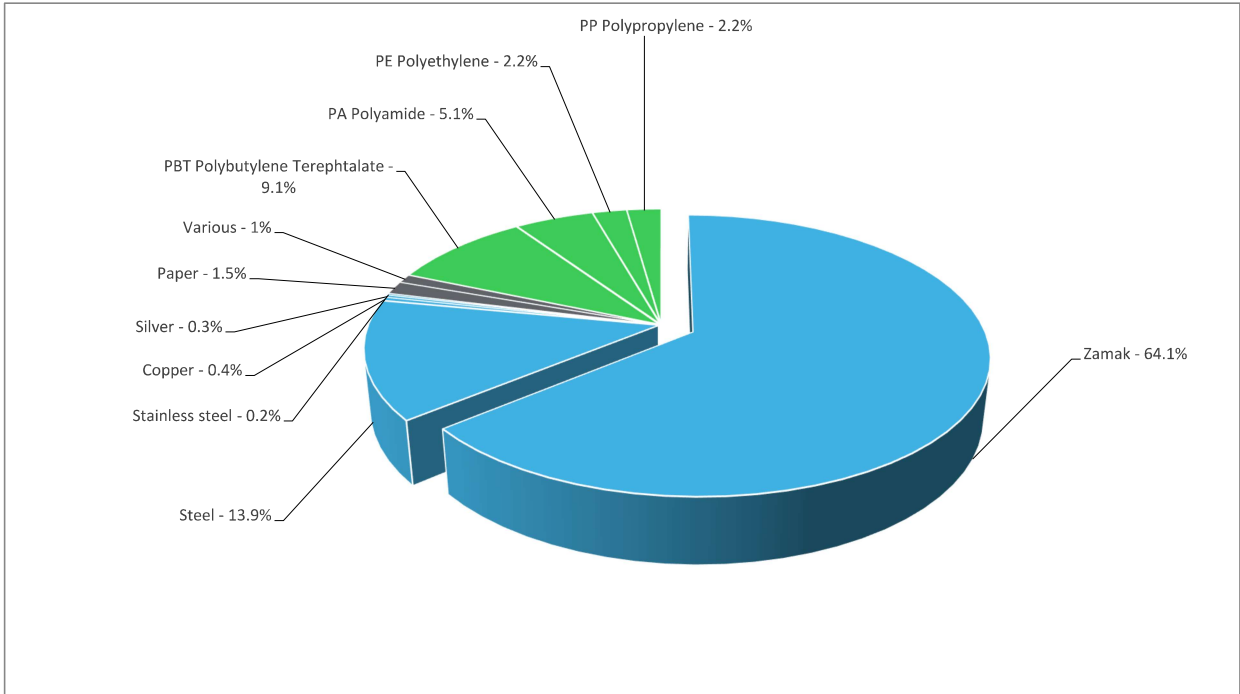


General information

Representative product	XB2 Pushbutton - XB2BA31C
Description of the product	The push button switch is usually used to turn on and off the control circuit, and it is a kind of control switch appliance that is widely used.
Functional unit	The main function of a push button switch is to switch something either on or off industrial applications with power consumption 0.015W with 70% active mode for 10 years and product is conforming with standard EN 60947-5-1.

Constituent materials

Reference product mass **68.5 g** including the product, its packaging and additional elements and accessories



Plastics	18.60%
Metals	78.90%
Others	2.50%

Substance assessment

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

End Of Life	Recyclability potential:	80%	Recyclability rate has been calculated based on REEECYLAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).
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Environmental impacts

Reference service life time	10 years			
Product category	Other equipments - Active product			
Installation elements	No special installation components need during installation phase, but transport of packaging to disposal, and disposal of packaging accounted for during installation.			
Use scenario	The product is in active mode 70% of the time with a power use of 0.015W and off mode 30% of the time with a power use of 0 W for 10 years			
Geographical representativeness	China			
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Energy model used: China	Electricity Mix; Production mix; Low voltage; CN	Electricity Mix; Production mix; Low voltage; CN	Electricity Mix; Production mix; Low voltage; CN

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), 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		XB2 Pushbutton - XB2BA31C						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	1.66E+00	8.10E-01	8.96E-03	2.12E-04	8.03E-01	3.43E-02	-5.78E-02
Contribution to climate change-fossil	kg CO2 eq	1.65E+00	8.08E-01	8.96E-03	2.12E-04	8.03E-01	3.42E-02	-5.76E-02
Contribution to climate change-biogenic	kg CO2 eq	2.00E-03	1.83E-03	0*	0*	1.15E-04	6.23E-05	-1.59E-04
Contribution to climate change-land use and land use change	kg CO2 eq	1.15E-09	1.08E-10	0*	0*	0*	1.04E-09	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	3.53E-08	3.00E-08	1.37E-11	0*	4.58E-09	6.79E-10	-1.02E-08
Contribution to acidification	mol H+ eq	1.28E-02	6.62E-03	5.76E-05	0*	6.01E-03	1.36E-04	-4.78E-04
Contribution to eutrophication, freshwater	kg (PO4) ³⁻ eq	5.02E-06	2.58E-06	3.36E-09	3.62E-08	1.70E-07	2.23E-06	-3.77E-07
Contribution to eutrophication marine	kg N eq	1.42E-03	7.21E-04	2.71E-05	4.39E-07	6.43E-04	2.81E-05	-4.26E-05
Contribution to eutrophication, terrestrial	mol N eq	1.57E-02	7.84E-03	2.97E-04	4.81E-06	7.28E-03	3.09E-04	-4.86E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	5.41E-03	3.09E-03	7.50E-05	1.25E-06	2.15E-03	1.01E-04	-1.74E-04
Contribution to resource use, minerals and metals	kg Sb eq	2.05E-04	2.05E-04	0*	0*	0*	6.35E-08	-1.88E-04
Contribution to resource use, fossils	MJ	2.58E+01	1.06E+01	1.25E-01	0*	1.30E+01	2.11E+00	-1.22E+00
Contribution to water use	m3 eq	1.19E-01	7.10E-02	3.40E-05	0*	3.52E-02	1.22E-02	-2.41E-02

Additional indicators for the French regulation are available as well

Inventory flows Indicators		XB2 Pushbutton - XB2BA31C						
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.44E+00	6.57E-02	1.67E-04	0*	1.37E+00	2.34E-03	-3.65E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	1.70E-02	1.70E-02	0*	0*	0*	0*	0.00E+00
Contribution to total use of renewable primary energy resources	MJ	1.46E+00	8.26E-02	1.67E-04	0*	1.37E+00	2.34E-03	-3.65E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.54E+01	1.02E+01	1.25E-01	0*	1.30E+01	2.11E+00	-1.22E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	4.36E-01	4.36E-01	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	2.58E+01	1.06E+01	1.25E-01	0*	1.30E+01	2.11E+00	-1.22E+00
Contribution to use of secondary material	kg	9.38E-05	9.38E-05	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	m³	2.69E-03	1.59E-03	0*	0*	8.22E-04	2.86E-04	-5.06E-04
Contribution to hazardous waste disposed	kg	1.71E+00	1.57E+00	0*	0*	2.44E-02	1.10E-01	-1.60E+00
Contribution to non hazardous waste disposed	kg	2.07E-01	6.34E-02	3.14E-04	1.20E-03	1.40E-01	2.45E-03	-4.13E-02
Contribution to radioactive waste disposed	kg	3.29E-05	2.49E-05	2.24E-07	4.29E-08	5.72E-06	2.02E-06	-2.02E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.52E-02	2.30E-03	0*	1.43E-03	0*	1.15E-02	0.00E+00
Contribution to materials for energy recovery	kg	5.00E-04	0*	0*	0*	0*	5.00E-04	0.00E+00
Contribution to exported energy	MJ	3.16E-06	2.97E-07	0*	2.86E-06	0*	0*	0.00E+00
Contribution to biogenic carbon content of the product	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	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

Life cycle assessment performed with EIME version v5.9.4, database version 2022-01 in compliance with ISO14044.

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.schneider-electric.com/contact>

Manufacturing phase has greatest impacts on Climate change-Biogenic(PEF-GWPb),Ozone depletion(PEF-ODP),Acidification(PEF-AP),Eutrophication, freshwater(PEF-Epf),Eutrophication marine(PEF-Epm),Photochemical ozone formation - human health(PEF-POCP),Resource use, minerals and metals(PEF-ADPe), Water use (PEF-WU)

Use phase has greatest impact on Resource use, fossils (PEF-ADPf)

EoLI phase is the greatest contributor to the impact on Climate change-Land use and land use change (GWPlu)

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 :	ENVPEP2211045_V1	Drafting rules	PEP-PCR-ed4-2021 09 06
Date of issue	12/2022	Supplemented by	PSR-0005-ed2-2016 03 29
Validity Period	5 Years	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 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 14021 : 2016 « Environmental labels and declarations. Type II environmental declarations »			

Schneider Electric Industries SAS

35, rue Joseph Monier

CS 30323

F- 92500 Rueil Malmaison Cedex

RCS Nanterre 954 503 439

Capital social 896 313 776 €

www.se.com

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