Product Environmental Profile

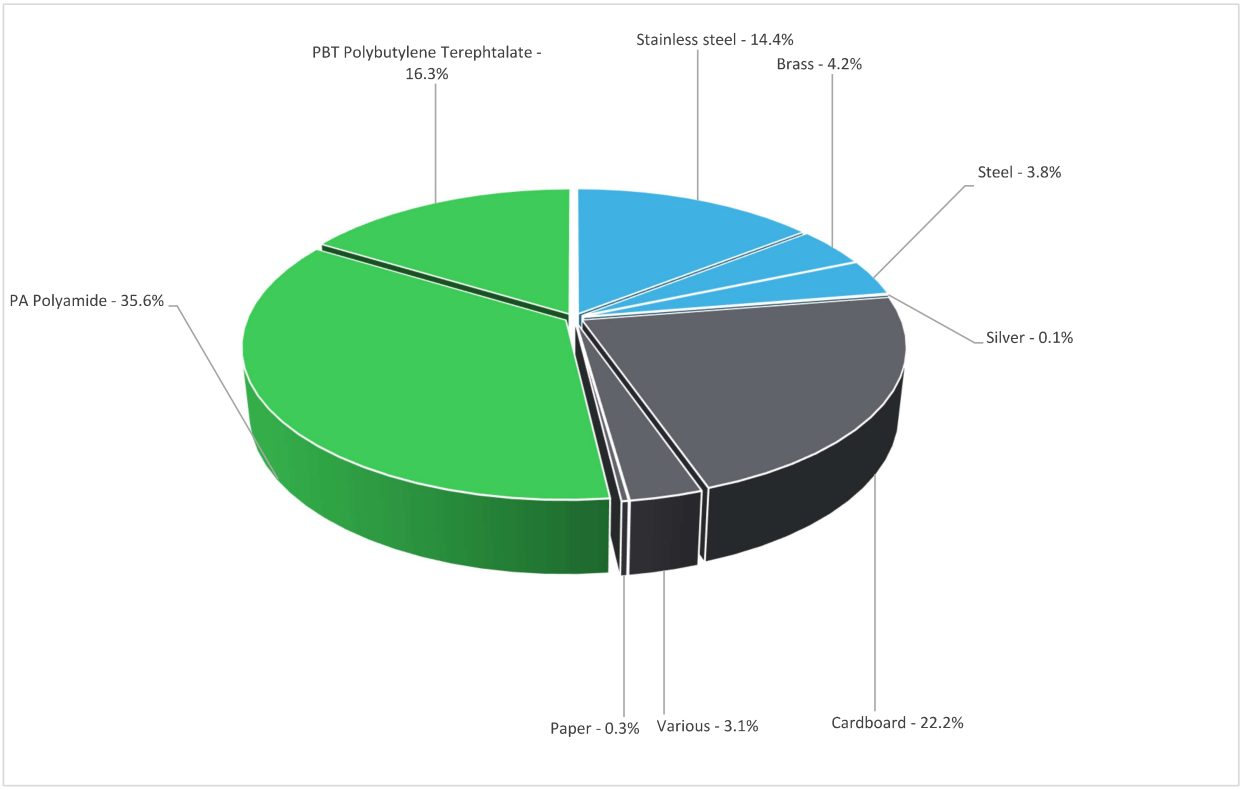
XB5 Plastic Non Illuminated Push Button

General information

Reference product	XB5 Plastic Non Illuminated Push Button - XB5AA31
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	XB5 Modular green push button operates with a spring return / impulse mechanism and uses screw clamp terminals. This push button provides a simple and robust control to machines and processes. It is easily installed into standard 22mm diameter cut-outs and connected with simple screw-clamp connections. Its schematic is clearly distinguishable visually at a distance thanks to clear colors and markings, minimizing errors during initial wiring and later maintenance operations.A push button switch's primary purpose is to turn something on or off in industrial applications. This pushbutton power consumption is 0.002W with 71% active mode for 10 years, and it product complies with IEC 60947-1 standards..

Constituent materials

Reference product mass	39.11 g	including the product, its packaging and additional elements and accessories



Plastics	51.90%
Metals	22.50%
Others	25.60%

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

End Of Life	Recyclability potential:	29%	Recyclability rate has been calculated based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).

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	For 10 years, the product uses 0.002W of power in active mode 71% of the time and 0 W of power in off mode 29% of the time.
Technological representativeness	The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are similar and representative of the actual type of technologies used to make the product.
Geographical representativeness	Global

	[A1 - A3]	[A5]	[B6]	[C1 - C4]
Energy model used	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; APAC	Electricity Mix; Production mix; Low voltage; APAC	Electricity Mix; Production mix; Low voltage; APAC
		Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27	Electricity Mix; Production mix; Low voltage; UE-27
		Electricity Mix; Production mix; Low voltage; US	Electricity Mix; Production mix; Low voltage; US	Electricity Mix; Production mix; Low voltage; US
		Electricity Mix; Production mix; Low voltage; BR	Electricity Mix; Production mix; Low voltage; BR	Electricity Mix; Production mix; Low voltage; BR
		Electricity Mix; Production mix; Low voltage; RU	Electricity Mix; Production mix; Low voltage; RU	Electricity Mix; Production mix; Low voltage; RU

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		XB5 Plastic Non Illuminated Push Button - XB5AA31						
Impact indicators	Unit	Total	Manufacturing [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Benefits [D]
Contribution to climate change	kg CO2 eq	4.70E-01	2.90E-01	1.37E-02	1.03E-02	8.50E-02	7.07E-02	-4.84E-02
Contribution to climate change-fossil	kg CO2 eq	4.67E-01	2.87E-01	1.37E-02	1.03E-02	8.50E-02	7.07E-02	-4.83E-02
Contribution to climate change-biogenic	kg CO2 eq	2.99E-03	2.94E-03	0*	8.29E-06	4.60E-05	0*	-1.14E-04
Contribution to climate change-land use and land use change	kg CO2 eq	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	7.14E-08	5.86E-08	1.21E-08	3.25E-11	4.22E-10	2.68E-10	-9.18E-09
Contribution to acidification	mol H+ eq	2.72E-03	1.99E-03	5.96E-05	7.69E-06	5.67E-04	1.01E-04	-2.79E-04
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	3.33E-06	3.10E-06	1.60E-09	1.76E-07	5.21E-08	4.80E-09	-9.51E-08
Contribution to eutrophication marine	kg N eq	4.92E-04	3.78E-04	2.74E-05	4.05E-06	6.22E-05	2.01E-05	-2.76E-05
Contribution to eutrophication, terrestrial	mol N eq	5.28E-03	3.98E-03	2.97E-04	3.04E-05	7.48E-04	2.33E-04	-3.18E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.69E-03	1.30E-03	9.73E-05	1.02E-05	2.06E-04	7.53E-05	-1.14E-04
Contribution to resource use, minerals and metals	kg Sb eq	2.87E-04	2.87E-04	0*	0*	0*	0*	-1.29E-05
Contribution to resource use, fossils	MJ	7.58E+00	4.07E+00	1.66E-01	1.29E-02	1.50E+00	1.84E+00	-9.86E-01
Contribution to water use	m3 eq	3.42E-02	1.66E-02	6.93E-04	1.89E-04	3.39E-03	1.33E-02	-2.03E-02

Additional indicators for the French regulation are available as well

Inventory flows Indicators		XB5 Plastic Non Illuminated Push Button - XB5AA31						
Inventory flows	Unit	Total	Manufact. [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Benefits [D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.52E-01	0*	0*	4.22E-04	1.90E-01	2.66E-04	-6.49E-03
Contribution to use of renewable primary energy resources used as raw material	MJ	1.72E-01	1.72E-01	0*	0*	0*	0*	-1.85E-03
Contribution to total use of renewable primary energy resources	MJ	3.25E-01	1.34E-01	0*	4.22E-04	1.90E-01	2.66E-04	-8.33E-03
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	7.06E+00	3.55E+00	1.66E-01	1.29E-02	1.50E+00	1.84E+00	-9.86E-01
Contribution to use of non renewable primary energy resources used as raw material	MJ	5.19E-01	5.19E-01	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	7.58E+00	4.07E+00	1.66E-01	1.29E-02	1.50E+00	1.84E+00	-9.86E-01
Contribution to use of secondary material	kg	0.00E+00	0*	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	7.97E-04	3.87E-04	1.61E-05	4.40E-06	7.90E-05	3.10E-04	-4.73E-04
Contribution to hazardous waste disposed	kg	5.52E-01	5.12E-01	0*	0*	2.15E-03	3.74E-02	-1.01E+00
Contribution to non hazardous waste disposed	kg	3.95E-01	3.56E-01	0*	1.02E-02	1.37E-02	1.51E-02	-3.56E-02
Contribution to radioactive waste disposed	kg	8.44E-05	7.93E-05	2.72E-06	4.10E-07	1.36E-06	6.89E-07	-1.51E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	8.65E-03	0*	0*	1.03E-04	0*	8.55E-03	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	4.92E-03	0*	0*	4.92E-03	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

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 :	ENVPEP2303008_V1	*Drafting rules*	PEP-PCR-ed4-2021 09 06
		Supplemented by	PSR-0005-ed2-2016 03 29
Date of issue	01/2024	*Information and reference documents*	www.pep-ecopassport.org
		Validity period	5 years

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 »

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