# **Product Environmental Profile**

### Harmony XB4 Metallic Illuminated Push Button





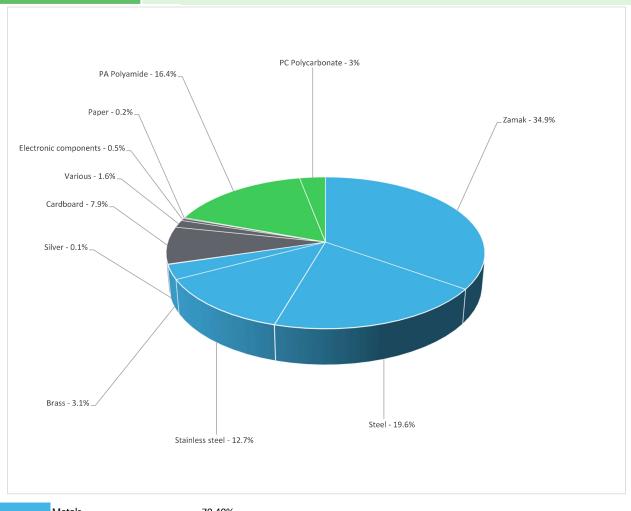
### General information

Reference product	Harmony XB4 Metallic Illuminated Push Button - XB4BW33B5				
Description of the product	Illuminated push buttons provide a much higher level of visibility for the switch location or as an indication of its current status. Illuminated metalic complete unit with contact function. It combines simplicity of installation, flexibility, and robustness. It meets the requirements of the majority of industrial applications.				
Functional unit	Harmony XB4 illuminated modular green push button operates with a spring return mechanism uses a universal LED. It has a metal bezel. This illuminated push button provides an ergonomic and visual interface for controlling your machines. It is easily installed into standard 22mm diameter panel cut-outs and connected to control circuits with classic screw-clamp connections and product is adhering to standards IEC 60947-5-1				



#### Constituent materials

Reference product mass 102.6 g including the product, its packaging and additional elements and accessories



 Metals
 70.40%

 Plastics
 19.40%

 Others
 10.20%



#### **Substance assessment**

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

# (1) Additional environmental information

End Of Life

Recyclability potential:

75%

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	The product is in active mode 71% of the time with a power use of 0.436W and off mode 29% of the time with a power use of 0 W for 10 years						
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]			
		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; UE- 27	Electricity Mix; Production mix; Low voltage; APAC	Electricity Mix; Production mix; Low voltage; APAC	Electricity Mix; Production mix; Low voltage; APAC			
Energy model used		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			Harmony XB4 Metallic Illuminated Push Button - XB4BW33B5					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Loads and Benefits
			[A1 - A3]	[A4]	[A5]	[B1 <b>-</b> B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	1.39E+01	7.73E-01	1.64E-02	1.51E-02	1.29E+01	2.66E-01	-3.64E-01
Contribution to climate change-fossil	kg CO2 eq	1.39E+01	7.68E-01	1.64E-02	1.44E-02	1.28E+01	2.66E-01	-3.62E-01
Contribution to climate change-biogenic	kg CO2 eq	1.87E-02	4.13E-03	0*	6.70E-04	1.38E-02	5.02E-05	-1.29E-03
Contribution to climate change-land use and land use char	nge kg CO2 eq	6.59E-10	6.59E-10	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	2.86E-07	2.28E-07	0*	9.98E-10	5.69E-08	8.00E-10	-8.19E-08
Contribution to acidification	mol H+ eq	8.39E-02	6.34E-03	1.09E-04	5.99E-05	7.66E-02	7.33E-04	-2.04E-03
Contribution to eutrophication, freshwater	kg (PO4)³ <sup>-</sup> eq	3.06E-05	6.65E-06	6.14E-09	1.09E-07	2.38E-05	5.27E-08	-9.64E-07
Contribution to eutrophication marine	kg N eq	9.86E-03	1.03E-03	5.16E-05	1.59E-05	8.62E-03	1.47E-04	-2.14E-04
Contribution to eutrophication, terrestrial	mol N eq	1.34E-01	1.11E-02	5.66E-04	1.20E-04	1.21E-01	1.43E-03	-2.39E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.22E-02	3.47E-03	1.44E-04	3.20E-05	2.80E-02	5.13E-04	-8.60E-04
Contribution to resource use, minerals and metals	kg Sb eq	1.36E-04	1.36E-04	0*	0*	7.06E-07	0*	-7.77E-05
Contribution to resource use, fossils	MJ	3.13E+02	1.22E+01	2.28E-01	1.57E-01	2.85E+02	1.49E+01	-6.40E+00
Contribution to water use	m3 eq	1.10E+00	2.17E-01	0*	6.44E-03	4.70E-01	4.11E-01	-1.57E-01

Additional indicators for the French regulation are available as well

Inventory flows Indicators	Harmony XB4 Metallic Illuminated Push Button - XB4BW33B5							
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Loads and Benefits
			[A1 - A3]	[A4]	[A5]	[B1 <b>-</b> B7]	[C1 - C4]	[D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	5.50E+01	4.91E-02	0*	1.13E-02	5.50E+01	0*	2.55E <b>-</b> 02
Contribution to use of renewable primary energy resources used as raw material	MJ	1.64E-01	1.64E-01	0*	0*	0*	0*	-1.21E-01
Contribution to total use of renewable primary energy resources	MJ	5.52E+01	2.13E-01	0*	1.13E-02	5.50E+01	0*	-9.53E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.12E+02	1.17E+01	2.28E-01	1.57E-01	2.85E+02	1.49E+01	-6.40E+00
Contribution to use of non renewable primary energy resources used as raw material	MJ	5.63E-01	5.63E-01	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	3.13E+02	1.22E+01	2.28E-01	1.57E-01	2.85E+02	1.49E+01	-6.40E+00
Contribution to use of secondary material	kg	2.15E-05	2.15E-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	2.67E-02	5.06E-03	0*	1.50E-04	1.10E-02	1.05E-02	-3.67E-03
Contribution to hazardous waste disposed	kg	3.69E+00	3.33E+00	0*	0*	2.64E-01	9.77E-02	-5.97E+00
Contribution to non hazardous waste disposed	kg	2.48E+00	4.84E-01	5.75E-04	4.91E-02	1.92E+00	2.19E-02	-3.71E-01
Contribution to radioactive waste disposed	kg	5.24E-04	1.84E-04	4.09E-07	6.59E-06	3.32E-04	1.33E-06	-9.88E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	7.90E-02	0*	0*	8.29E-03	0*	7.08E-02	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	0.00E+00	0*	0*	0*	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

<sup>\*</sup> 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 num	ber:	ENVPEP1808008_V2	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 Julie ORGELET (DDemain)								
PEP are compliant with XP C08-100-1 :2016 or EN 50693:2019								
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

Country Customer Care Center
http://www.schneider-electric.com/contact
35, rue Joseph Monier
CS 30323

F- 92500 Rueil Malmaison Cedex
RCS Nanterre 954 503 439
Capital social 928 298 512 €

www.se.com

Published by Schneider Electric

ENVPEP1808008\_V2 ©2023 - Schneider Electric – All rights reserved

01/2024