Product Environmental Profile

Harmony ZBE Contact Block





General information

Reference product	Harmony ZBE Contact Block - ZBE101
Description of the product	Contact block is an electrical circuit connector that is used to turn on or turn off an electrical circuit. They control startup a shutdown for industrial equipment like emergency buttons
	<u> </u>

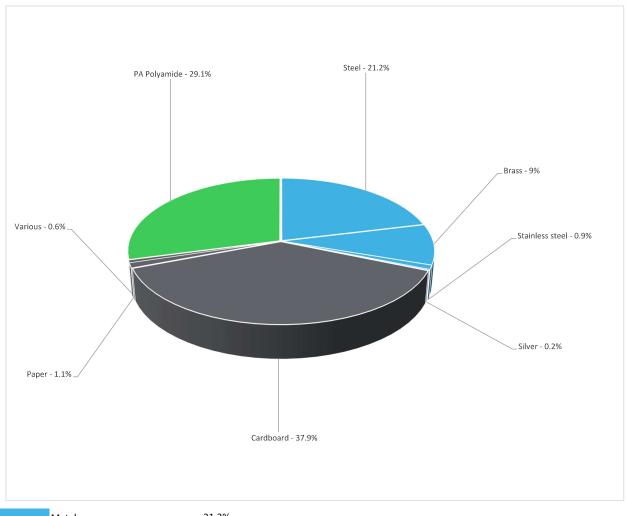
Pushbutton contact blocks are an important electrical component used in a variety of applications. They provide a way to control, monitor and switch electrical circuits on and off. This contact block consumes 0.002 W with 35% utilisation rate and the product has a life of 10 years and adhering to international standards IEC 60947-1 & IEC 60947-5-4.

and

Constituent materials

Functional unit

Reference product mass 17.99 g including the product, its packaging and additional elements and accessories



 Metals
 31.3%

 Others
 39.6%

 Plastics
 29.1%

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:

50%

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% $\,$



Environmental impacts

Reference service life time	10 years						
Product category	Other equipments - Active product						
Installation elements	of packaging to disposal, and d	isposal of packaging					
Use scenario	65% of the time with off mode v	vith power use of 0W for 10					
Technological representativeness The Modules of Technologies such as material production, manufacturing process and transport technology used in this EIME in this case) are similar and representative of the actual type of technologies used to make the product)							
Geographical representativeness	Europe, North America, South America, APAC, Russia						
	[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; US	Electricity Mix; Production mix; Low voltage; US	Electricity Mix; Production mix; Low voltage; US			
Energy model used		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; 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 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 ZBE Contact Block - ZBE101					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Loads and Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	1.87E-01	1.12E-01	2.35E-03	1.27E-02	2.79E-02	3.27E-02	-3.92E-02
Contribution to climate change-fossil	kg CO2 eq	1.85E-01	1.10E-01	2.35E-03	1.21E-02	2.78E-02	3.27E-02	-3.86E-02
Contribution to climate change-biogenic	kg CO2 eq	2.11E-03	1.51E-03	0*	5.63E-04	3.25E-05	0*	-5.73E-04
Contribution to climate change-land use and land use chan	ge kg CO2 eq	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	2.63E-08	2.52E-08	3.60E-12	8.39E-10	1.22E-10	9.12E-11	-5.38E-09
Contribution to acidification	mol H+ eq	1.21E-03	9.28E-04	1.51E-05	5.03E-05	1.62E-04	5.84E-05	-2.08E-04
Contribution to eutrophication, freshwater	kg (PO4)³¯eq	1.48E-06	1.32E-06	8.81E-10	9.15E-08	6.01E-08	2.84E-09	-2.02E-07
Contribution to eutrophication marine	kg N eq	2.10E-04	1.60E-04	7.11E-06	1.33E-05	1.84E - 05	1.09E-05	-3.21E-05
Contribution to eutrophication, terrestrial	mol N eq	2.25E-03	1.69E-03	7.80E-05	1.01E-04	2.60E-04	1.24E-04	-3.10E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	6.57E-04	5.09E-04	1.97E - 05	2.68E-05	5.95E-05	4.24E-05	-9.68E-05
Contribution to resource use, minerals and metals	kg Sb eq	4.16E-05	4.16E-05	0*	0*	0*	0*	-5.84E-06
Contribution to resource use, fossils	MJ	3.55E+00	1.58E+00	3.28E-02	1.32E-01	6.50E-01	1.16E+00	-5.95E-01
Contribution to water use	m3 eq	1.54E-02	1.53E-03	8.92E-06	5.41E-03	1.01E-03	7.44E-03	-1.93E-02

Additional indicators for the French regulation are available as well

Inventory flows Indicators			Harmony ZBE Contact Block - ZBE101					
Inventory flows	Unit	Total	Manufact.	Distribution	Installation	Use	End of Life	Loads and 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	7.75E-02	0*	4.37E-05	9.46E-03	1.20E-01	9.92E-05	7.16E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	1.38E-01	1.38E-01	0*	0*	0*	0*	-1.25E-01
Contribution to total use of renewable primary energy resources	MJ	2.15E-01	8.56E-02	4.37E-05	9.46E-03	1.20E-01	9.92E-05	-5.38E-02
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.43E+00	1.45E+00	3.28E-02	1.32E-01	6.50E-01	1.16E+00	-5.95E-01
Contribution to use of non renewable primary energy resources used as raw material	MJ	1.24E-01	1.24E-01	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	3.55E+00	1.58E+00	3.28E-02	1.32E-01	6.50E-01	1.16E+00	-5.95E-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	m³	3.59E-04	3.57E-05	2.08E-07	1.26E-04	2.34E-05	1.73E-04	-4.49E-04
Contribution to hazardous waste disposed	kg	6.44E-01	6.33E-01	0*	1.50E-04	5.52E-04	1.11E-02	-4.54E-01
Contribution to non hazardous waste disposed	kg	2.84E-01	2.33E-01	8.25E-05	4.12E-02	4.10E-03	5.65E-03	-1.96E-01
Contribution to radioactive waste disposed	kg	4.17E-05	3.51E-05	5.87E-08	5.53E-06	7.67E-07	2.55E-07	-1.61E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.24E-02	0*	0*	6.96E-03	0*	5.47E-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	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

^{*} 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 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 :	ENVPEP2304014_V1	Drafting rules	PEP-PCR-ed4-2021 09 06					
		Supplemented by	PSR-0005-ed2-2016 03 29					
Date of issue	10/2023	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	Internal X External							
The PCR review was cond	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 »								

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www.se.com Published by Schneider Electric

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