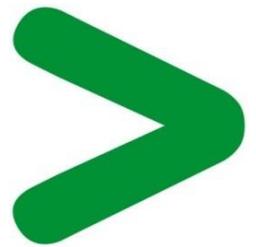


# Product Environmental Profile

4 directions joystick





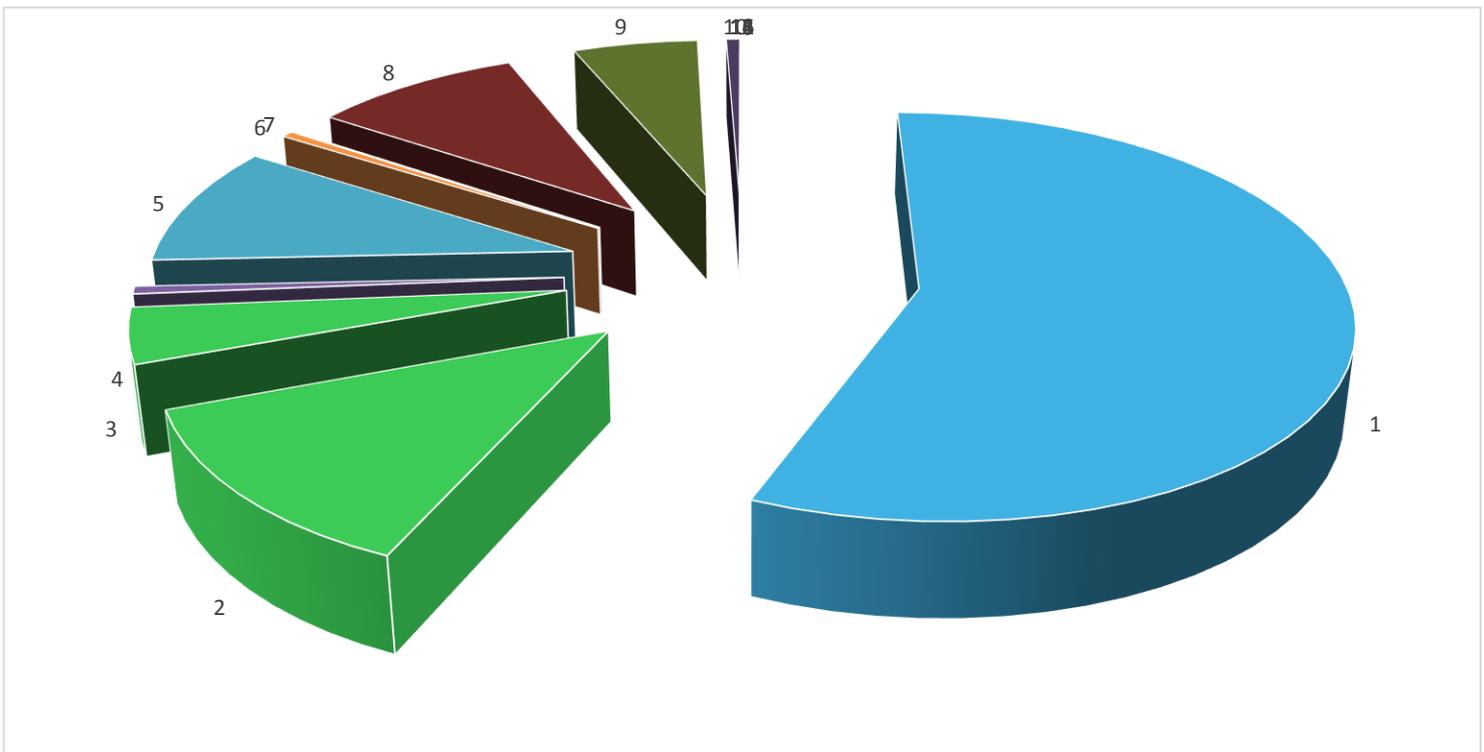
## General information

<b>Representative product</b>	4 directions joystick - XD2GA84417
<b>Description of the product</b>	The main function of the XD2GA84417 is to control the operation or movement of objects in 4 different directions.
<b>Functional unit</b>	Control the operation or movement of objects in 4 different directions. Calculation of the environmental impacts is based on 20 years of product service lifetime.



## Constituent materials

**Reference product mass** 568,9 g including the product, its packaging and additional elements and accessories



	Plastics	15,5%
	Metals	74,2%
	Others	10,2%



## Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers – PBDE), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the Directive.

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

The 4 directions joystick presents the following relevant environmental aspects

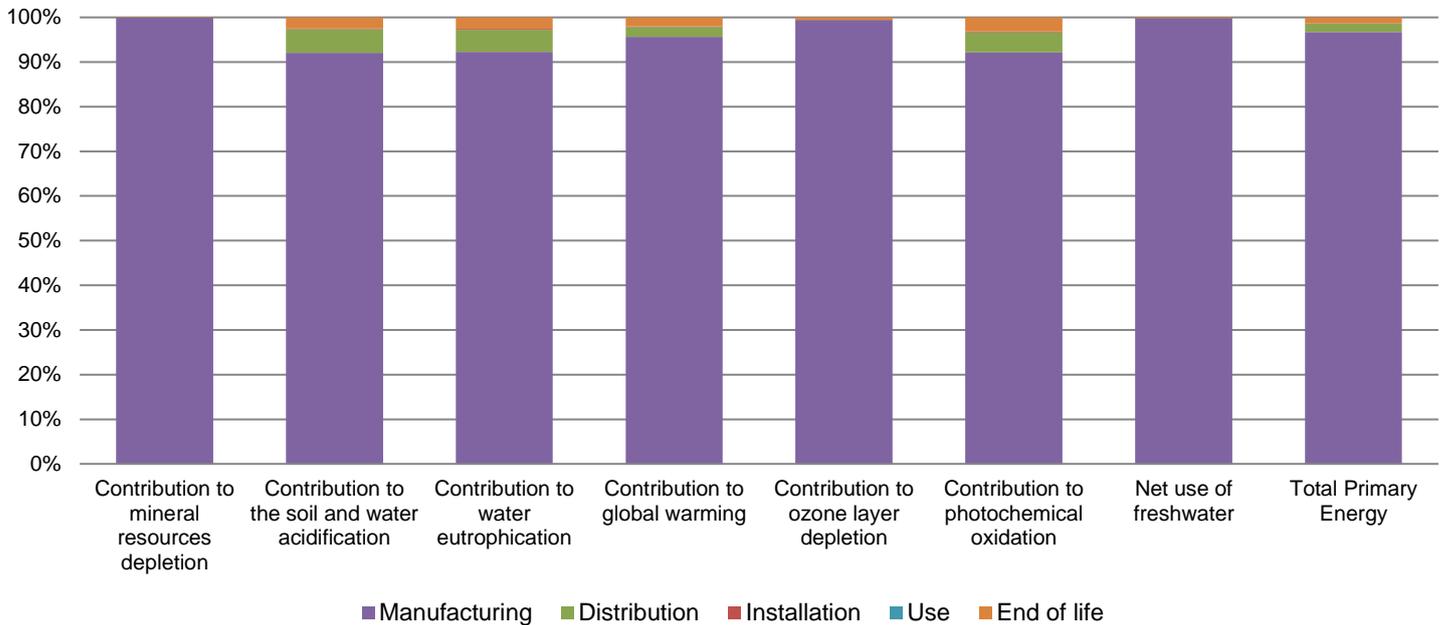
<b>Design</b>	Indicate all the eco-design improvements brought to the product at the design phase compared to previous offer range, refer to ecoDesign Way results
<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 57,6 g, consisting of Recyclable cardboard (99,6%), paper (0,4%)  Product distribution optimised by setting up local distribution centres
<b>Installation</b>	Ref XD2GA84417 does not require any installation operations.
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials  No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process.  Recyclability potential: <b>63%</b> Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).



## Environmental impacts

<b>Reference life time</b>	20 years			
<b>Product category</b>	Contactor, remote control switch, combinations, starters			
<b>Installation elements</b>	Nothing			
<b>Use scenario</b>	Load factor: 50% of I <sub>rip</sub> Use rate: 50% of the RLT			
<b>Geographical representativeness</b>	Worldwide			
<b>Technological representativeness</b>	The main function of the XD2GA84417 is to control the operation or movement of objects in 4 different directions.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: France	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity Mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		4 directions joystick - XD2GA84417					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	4,02E-03	4,02E-03	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	6,40E-03	5,89E-03	3,35E-04	1,29E-05	0*	1,58E-04
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	1,56E-03	1,44E-03	7,72E-05	2,96E-06	0*	4,00E-05
Contribution to global warming	kg CO <sub>2</sub> eq	3,22E+00	3,07E+00	7,34E-02	2,87E-03	0*	6,46E-02
Contribution to ozone layer depletion	kg CFC11 eq	6,30E-07	6,26E-07	1,49E-10	0*	0*	3,52E-09
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	5,31E-04	4,89E-04	2,39E-05	9,15E-07	0*	1,67E-05
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m <sup>3</sup>	5,70E-02	5,69E-02	6,57E-06	0*	0*	6,63E-05
Total Primary Energy	MJ	5,67E+01	5,49E+01	1,04E+00	4,05E-02	0*	7,81E-01



Optional indicators		4 directions joystick - XD2GA84417					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	3,75E+01	3,58E+01	1,03E+00	4,03E-02	0*	6,28E-01
Contribution to air pollution	m <sup>3</sup>	2,34E+03	2,33E+03	3,12E+00	0*	0*	5,58E+00
Contribution to water pollution	m <sup>3</sup>	2,43E+02	2,24E+02	1,21E+01	4,72E-01	0*	6,28E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1,06E-02	1,06E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	2,40E+00	2,39E+00	1,38E-03	0*	0*	8,70E-04
Total use of non-renewable primary energy resources	MJ	5,43E+01	5,25E+01	1,04E+00	4,05E-02	0*	7,81E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1,89E+00	1,89E+00	1,38E-03	0*	0*	8,70E-04
Use of renewable primary energy resources used as raw material	MJ	5,06E-01	5,06E-01	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	5,23E+01	5,05E+01	1,04E+00	4,05E-02	0*	7,81E-01
Use of non renewable primary energy resources used as raw material	MJ	2,02E+00	2,02E+00	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	1,20E+01	1,13E+01	0*	0*	0*	7,37E-01
Non hazardous waste disposed	kg	3,15E-01	3,10E-01	2,61E-03	1,02E-04	0*	2,40E-03
Radioactive waste disposed	kg	1,62E-04	1,57E-04	1,86E-06	7,26E-08	0*	3,76E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	3,87E-01	5,26E-02	0*	0*	0*	3,35E-01
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	4,75E-03	0*	0*	0*	0*	4,75E-03
Exported Energy	MJ	0,00E+00	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 EIME v5.8.1, database version 2016-11 in compliance with ISO14044.

The manufacturing phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

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	ENVPEP1910002_V1-EN	Drafting rules	PCR-ed3-EN-2015 04 02
Date of issue	09/19		
Validity period	5 years	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
<i>Independent verification of the declaration and data</i>			
Internal	X	External	
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »</i>			

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