

# Product Environmental Profile

## Multi9 - Auxiliary Contact - OF 2-100mA





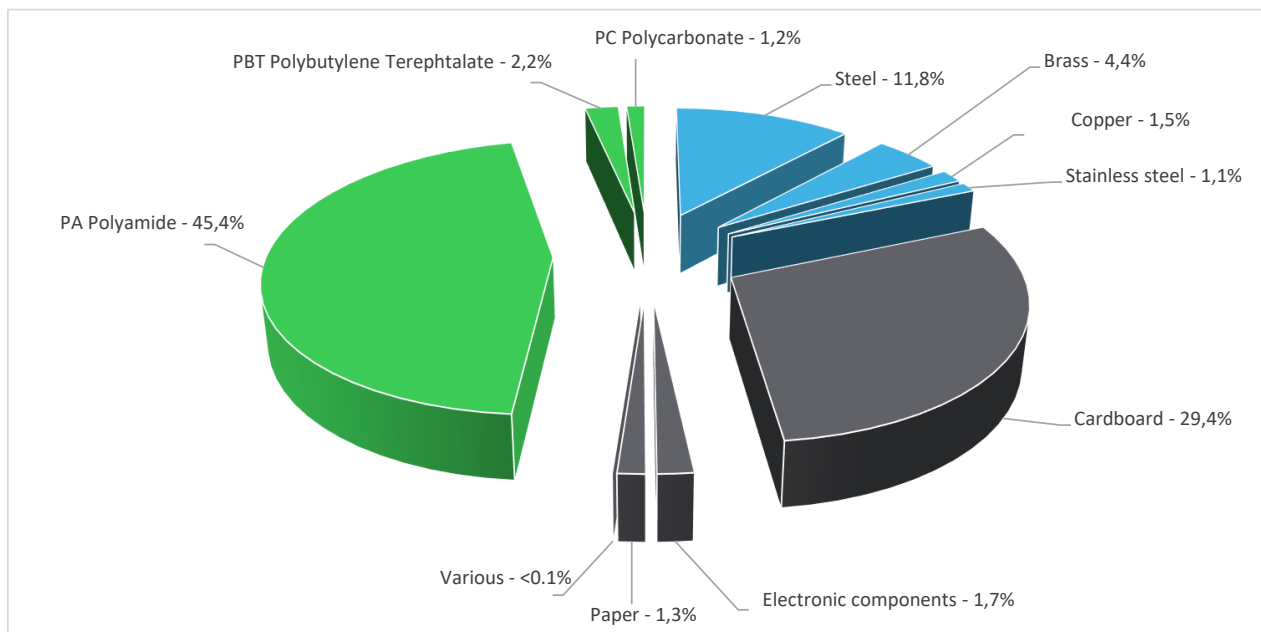
## General information

<b>Representative product</b>	Multi9 - Auxiliary Contact - OF 2-100mA - M9A26914
<b>Description of the product</b>	Multi9 OF low current auxiliary contact indicates locally or remotely (PLC) the position "open" or "close" of the protection device associated.
<b>Description of the range</b>	This PEP also covers the commercial reference : M9A26917 The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.
<b>Functional unit</b>	Indicate locally and remotely electrical protection device status for 20 years



## Constituent materials

**Reference product mass** 43,9 g including the product, its packaging and additional elements and accessories



Plastics	48,8%
Metals	18,8%
Others	32,4%



## 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 Multi9 - Auxiliary Contact - OF 2-100mA presents the following relevant environmental aspects :

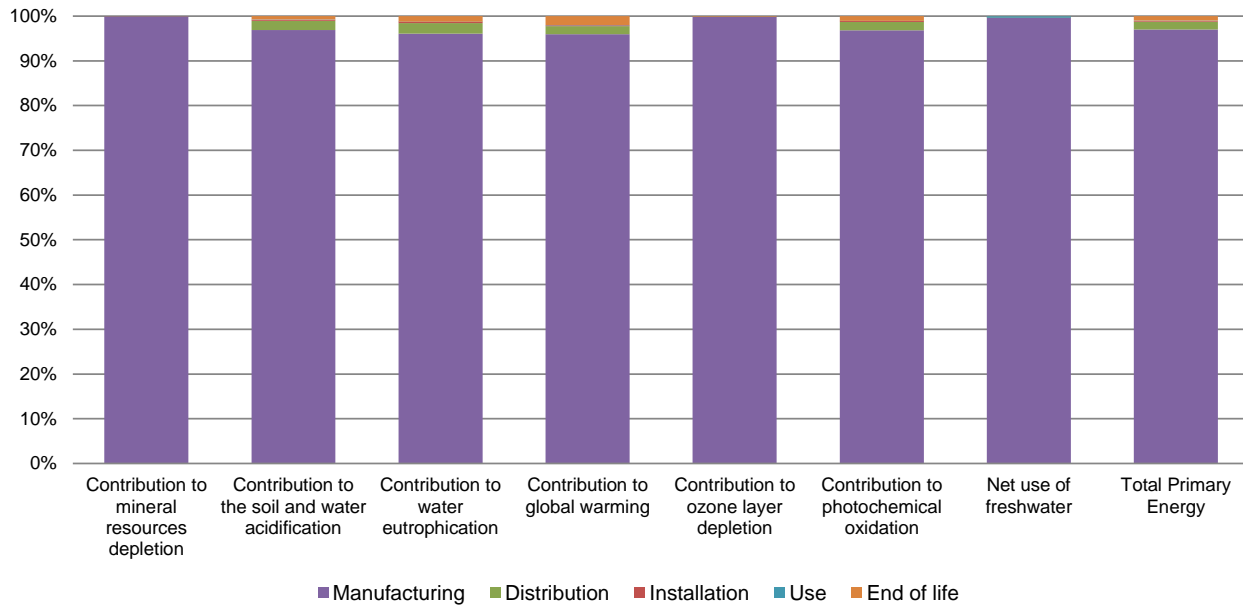
<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 13,9 g, consisting of Cartonboard (95,7%) and Paper (4,3%) Packaging recycled materials is 70% of total packaging mass. Product distribution optimised by setting up local distribution centres
<b>Installation</b>	Ref M9A26914 does not require any special installation operations. The disposal of the packaging materials are accounted during the installation phase (including transport to disposal).
<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>24%</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>	Other equipments			
<b>Installation elements</b>	No special components needed			
<b>Use scenario</b>	For PLC applications, the auxiliary contact operates under 5mA (corresponding dissipation = 8,1x10E-4 W) 100% of the reference life time (20 years).			
<b>Geographical representativeness</b>	Worldwide			
<b>Technological representativeness</b>	Multi9 OF low current auxiliary contact indicates locally or remotely (PLC) the position "open" or "close" of the protection device associated.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Inde - Electricity mix; AC; consumption mix, at consumer; 230V; IN	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		Multi9 - Auxiliary Contact - OF 2-100mA - M9A26914					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1,74E-05	1,74E-05	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	1,27E-03	1,23E-03	2,59E-05	3,14E-06	2,90E-07	9,81E-06
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	2,47E-04	2,37E-04	5,96E-06	7,64E-07	0*	2,99E-06
Contribution to global warming	kg CO <sub>2</sub> eq	3,17E-01	3,04E-01	5,66E-03	7,54E-04	6,96E-05	6,34E-03
Contribution to ozone layer depletion	kg CFC11 eq	2,38E-07	2,38E-07	0*	0*	0*	2,32E-10
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	9,77E-05	9,46E-05	1,85E-06	2,35E-07	1,59E-08	1,00E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	7,57E-02	7,54E-02	0*	0*	2,52E-04	0*
Total Primary Energy	MJ	4,64E+00	4,50E+00	8,01E-02	9,85E-03	1,39E-03	4,66E-02



Optional indicators		Multi9 - Auxiliary Contact - OF 2-100mA - M9A26914					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	3,72E+00	3,60E+00	7,96E-02	9,78E-03	7,90E-04	3,75E-02
Contribution to air pollution	m <sup>3</sup>	4,38E+01	4,32E+01	2,41E-01	3,01E-02	0*	3,42E-01
Contribution to water pollution	m <sup>3</sup>	1,19E+02	1,17E+02	9,31E-01	1,14E-01	0*	4,40E-01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1,35E-02	1,35E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1,22E-01	1,22E-01	1,07E-04	1,53E-05	1,77E-04	5,13E-05
Total use of non-renewable primary energy resources	MJ	4,51E+00	4,38E+00	8,00E-02	9,84E-03	1,21E-03	4,66E-02
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	8,23E-02	8,20E-02	1,07E-04	1,53E-05	1,77E-04	5,13E-05
Use of renewable primary energy resources used as raw material	MJ	3,97E-02	3,97E-02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3,94E+00	3,80E+00	8,00E-02	9,84E-03	1,21E-03	4,66E-02
Use of non renewable primary energy resources used as raw material	MJ	5,77E-01	5,77E-01	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	9,00E-01	8,45E-01	0*	0*	0*	5,56E-02
Non hazardous waste disposed	kg	2,45E-01	2,45E-01	2,01E-04	1,02E-04	2,59E-04	1,42E-04
Radioactive waste disposed	kg	7,98E-05	7,92E-05	1,43E-07	2,01E-08	1,73E-07	2,29E-07
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2,59E-02	4,47E-03	0*	1,39E-02	0*	7,51E-03
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1,11E-03	0*	0*	0*	0*	1,11E-03
Exported Energy	MJ	4,41E-05	4,14E-06	0*	3,99E-05	0*	0*

\* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version 5.9.3, database version 2020-12 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).

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply may be provided on request

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.

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Verifier accreditation N°	VH39	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Date of issue	04/2022	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010			
Internal		External X	
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 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »			



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