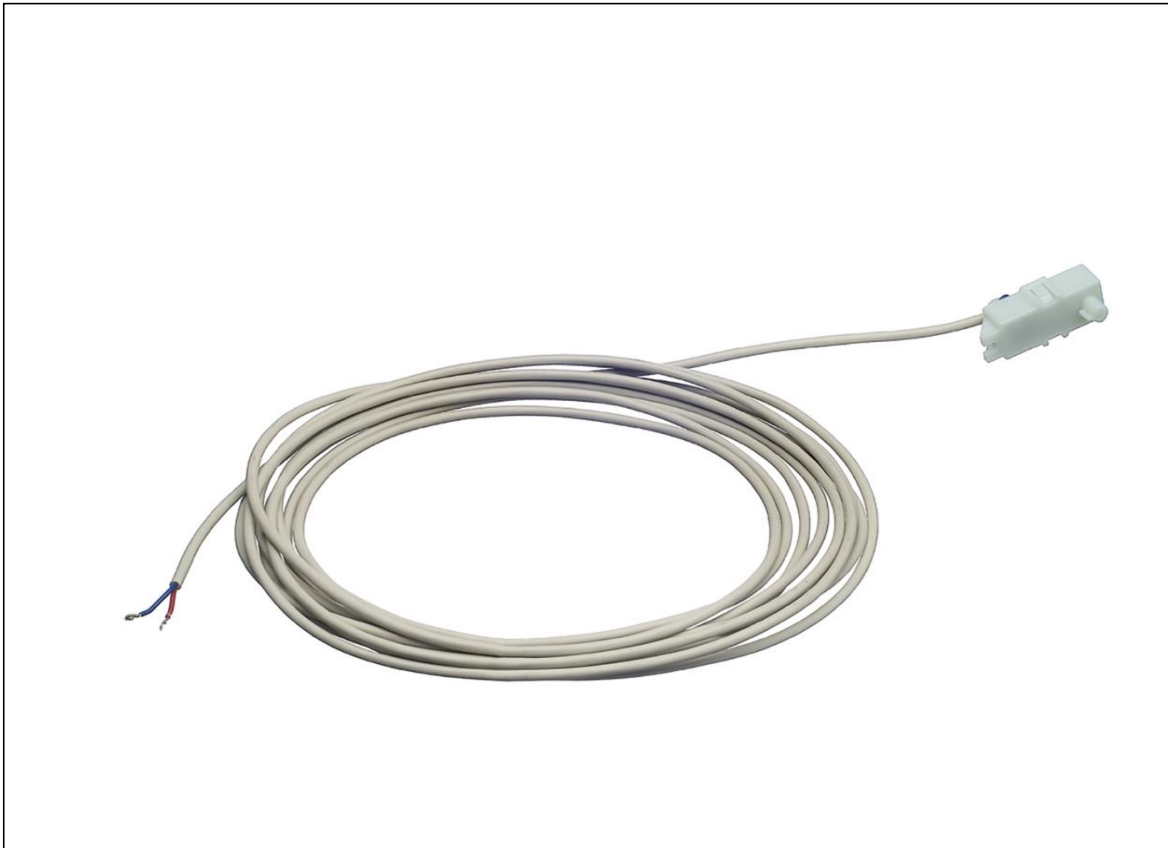


Product Environmental Profile

Arc sensor with 20m connective cable





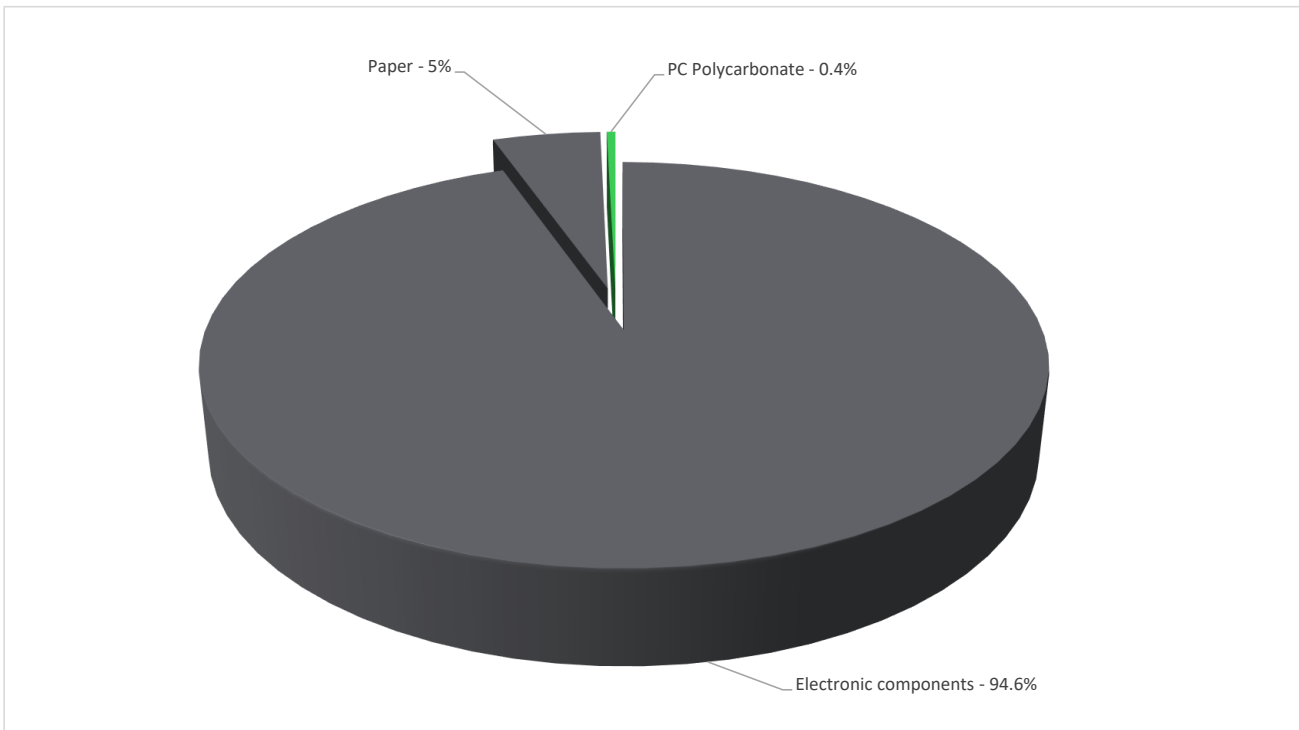
General information

Reference product	Arc sensor with 20m connective cable - REL52801
Description of the product	The arc flash point sensor are used to detect light emitted by the arc and inform the unit to activate an emergency trip. By using the optic fiber principle, these sensors have a high reaction time to indicate faults. These elements can be installed at different location within an enclosure to have a precise position, faster detection of the fault.
Description of the range	The environmental impacts of this reference product are representative of the impacts of the other products of the range which are developed with a similar technology. The products of the range are: VA1DA Arc sensor
Functional unit	VA 1 DA is a point type arc flash sensor. Arc flash light is transformed to a current signal in the sensor. This product complies with the following technical parameters within its service life: <ul style="list-style-type: none"> • Standard 8000 - 10000 lux visible light sensitivity • Wide area arc flash detection • Typically <1 ms detection time • Standard cable length 6m or 20m (cut to length on site) • Easy to install (2 wired non polarity sensitive connection) • Can be switchgear surface mounted, mounted in customer drilled holes in switchgear or on VYX001 Z shape or VYX002 L shape mounting plates available from VAMP or locally fabricated from supplied drawings. The sensor is used by an arc flash protection device (IED) or system to detect the light coming from the arc flash incident. The arc sensor VA 1 DA is activated by strong light. The sensor transforms the light information into the current signal, which is used by the IED to indicate arc flash.



Constituent materials

Reference product mass	1050 g including the product, its packaging, additional elements and accessories
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Plastics	0.4%
Metals	0.0%
Others	99.6%



Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website
<https://www.se.com>

Additional environmental information

End Of Life	Recyclability potential:	0%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECYLAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the EIME database and the related PSR was taken. If no data was found a conservative assumption was used (0% recyclability).
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Environmental impacts

Reference service life time	10 years		
Product category	Other equipments - Active product		
Life cycle of the product	The manufacturing, the distribution, the installation, the use and the end of life were taken into consideration in this study		
Electricity consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligible consumption		
Installation elements	The product does not require any installation operations		
Use scenario	The product is in active mode 1% of the time with a power use of 0.24W and it is in standby mode 99% of the time with a power use of 0.024W for 10 years.		
Time representativeness	The collected data are representative of the year 2024		
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are Similar and representative of the actual type of technologies used to make the product.		
Geographical representativeness	Final assembly site	Use phase	
	Finland	Europe and Asia Pacific	
Energy model used	[A1 - A3]	[A5]	[B6]
	Electricity Mix; Low voltage; 2020; Finland, FI	No energy used	Electricity Mix; Low voltage; 2020; Europe, EU-27 Electricity Mix; Low voltage; 2020; Asia Pacific, APAC
			[C1 - C4]
			Global, European and French datasets are used.

Detailed results of 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.se.com/contact>

Mandatory Indicators		Arc sensor with 20m connective cable - REL52801						
Impact indicators	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to climate change	kg CO2 eq	9.80E+00	6.66E+00	4.87E-01	0*	1.19E+00	1.45E+00	0.00E+00
Contribution to climate change-fossil	kg CO2 eq	9.21E+00	6.81E+00	4.87E-01	0*	1.18E+00	7.35E-01	0.00E+00
Contribution to climate change-biogenic	kg CO2 eq	5.87E-01	0*	0*	0*	1.54E-02	7.17E-01	0.00E+00
Contribution to climate change-land use and land use change	kg CO2 eq	6.88E-06	6.88E-06	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	2.88E-06	2.44E-06	4.30E-07	0*	5.69E-09	2.93E-09	0.00E+00
Contribution to acidification	mol H+ eq	1.07E-01	9.61E-02	2.12E-03	0*	7.22E-03	1.91E-03	0.00E+00
Contribution to eutrophication, freshwater	kg P eq	8.39E-05	4.76E-05	5.71E-08	0*	1.65E-06	3.45E-05	0.00E+00
Contribution to eutrophication, marine	kg N eq	1.09E-02	8.19E-03	9.73E-04	0*	8.14E-04	8.95E-04	0.00E+00
Contribution to eutrophication, terrestrial	mol N eq	1.20E-01	8.92E-02	1.05E-02	0*	1.11E-02	9.57E-03	0.00E+00
Contribution to photochemical ozone formation - human health	kg COVNM eq	4.32E-02	3.48E-02	3.46E-03	0*	2.65E-03	2.37E-03	0.00E+00
Contribution to resource use, minerals and metals	kg Sb eq	6.92E-04	6.92E-04	0*	0*	2.60E-07	0*	0.00E+00
Contribution to resource use, fossils	MJ	1.86E+02	1.52E+02	6.06E+00	0*	2.43E+01	3.45E+00	0.00E+00
Contribution to water use	m3 eq	3.06E+00	2.91E+00	2.47E-02	0*	7.87E-02	4.54E-02	0.00E+00

Inventory flows Indicators		Arc sensor with 20m connective cable - REL52801						
Inventory flows	Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads
Contribution to renewable primary energy used as energy	MJ	6.25E+00	1.88E+00	0*	0*	4.37E+00	4.43E-03	0.00E+00
Contribution to renewable primary energy used as raw material	MJ	9.51E-01	9.51E-01	0*	0*	0*	0*	0.00E+00
Contribution to total renewable primary energy	MJ	7.20E+00	2.83E+00	0*	0*	4.37E+00	4.43E-03	0.00E+00
Contribution to non renewable primary energy used as energy	MJ	1.66E+02	1.32E+02	6.06E+00	0*	2.43E+01	3.45E+00	0.00E+00
Contribution to non renewable primary energy used as raw material	MJ	2.00E+01	2.00E+01	0*	0*	0*	0*	0.00E+00
Contribution to total non renewable primary energy	MJ	1.86E+02	1.52E+02	6.06E+00	0*	2.43E+01	3.45E+00	0.00E+00
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 fresh water	m³	7.11E-02	6.77E-02	5.76E-04	0*	1.84E-03	1.06E-03	0.00E+00
Contribution to hazardous waste disposed	kg	3.28E+00	3.25E+00	4.04E-04	0*	3.36E-02	2.00E-03	0.00E+00
Contribution to non hazardous waste disposed	kg	1.60E+00	4.02E-01	4.96E-04	0*	1.95E-01	1.00E+00	0.00E+00
Contribution to radioactive waste disposed	kg	5.82E-04	4.49E-04	9.69E-05	0*	2.95E-05	6.43E-06	0.00E+00
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	5.82E-03	5.82E-03	0*	0*	0*	0*	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	1.85E-05	1.85E-05	0*	0*	0*	0*	0.00E+00

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

Contribution to biogenic carbon content of the product kg of C 0.00E+00

Contribution to biogenic carbon content of the associated packaging kg of C 1.99E-02

* The calculation of the biogenic carbon is based on the Ademe for the Cardboard (28%), EN16485 for Wood (39,52%), and APESA/RECORD for Paper (37,8%)

Life cycle assessment performed with EIME version v6.2.4, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

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

Registration number :	ENVPEP2508028_V1-EN	Drafting rules	PEP-PCR-ed4-2021 09 06
Date of issue	15/08/2025	Supplemented by	PSR-0005-ed3-2023 06 06
		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)			
PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022			
The components of the present PEP may not be compared with components from any other program.			
Document complies with ISO 14021:2016 "Environmental labels and declarations. Type II environmental declarations"			

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