

Product Environmental Profile

Harmony XV4 ø40mm Optimum Tower Light With Buzzer





General information

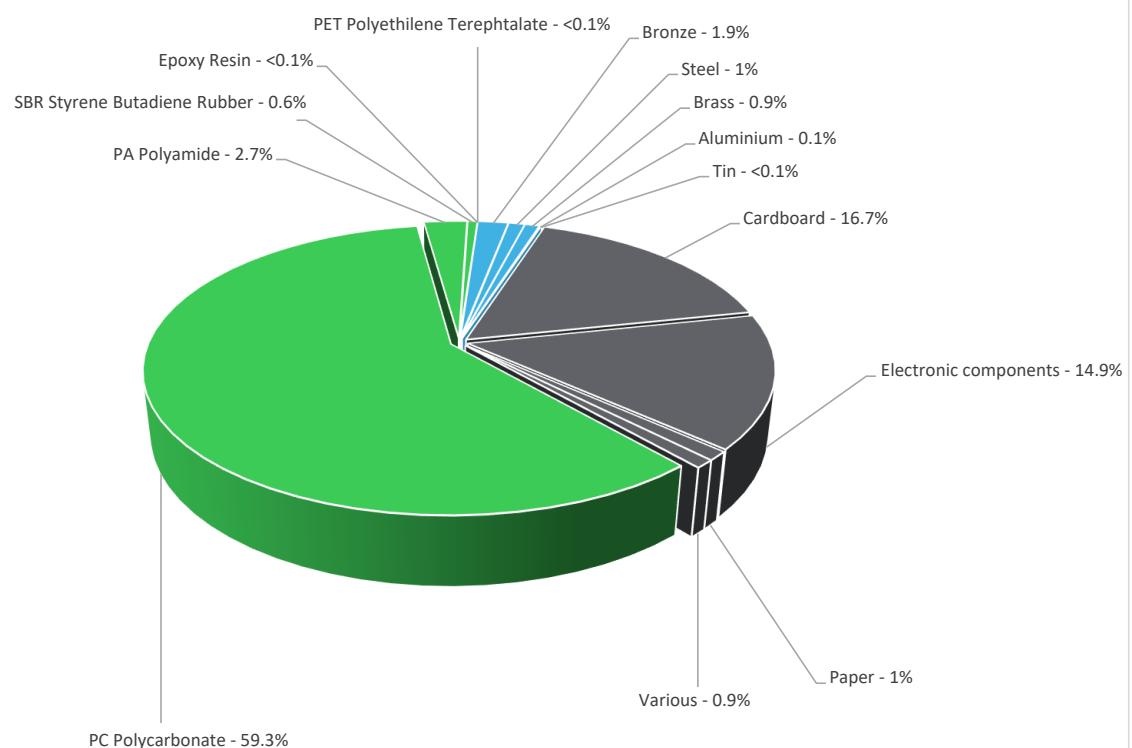
Reference product	Harmony XV4 ø40mm Optimum Tower Light With Buzzer - XV4C9S, XV4C55, XV4C23C, XV4C21MX, XV4C020, XVZ02Q
Description of the product	The representative product used in the analysis is a pre-assembled LED indicator tower light consisting of a base, light modules, buzzer, adapter and fixing plate (XV4C9S, XV4C55, XV4C23C, XV4C21MX, XV4C020, XVZ02Q). The product is an audible signaling units designed for indication of operating status in industrial applications. Examples: starting or stopping a machine, insufficient material, calling personnel etc.
Description of the range	Single product
Functional unit	Harmony XV4 tower light with buzzer is a signaling device commonly used in industrial and commercial environments to visually and audibly communicate the status of a machine, process or system to operators, technicians, supervisors and other people who are engaged in the work specifically to identify the various states or sequences of a machine or installation from a distance through 360° in life span of 10 years. This product will be active for 73% of time with a power consumption of 5.28W and adhering to standards IEC 60947-5-1.
Specifications are:	Ambient air temperature for operation : -35-70 °C IP 65 degree of protection Certifications : CE, UKCA, CCC, RCM, cULus Service life 50000 hours [Ui] rated insulation voltage 50 V



Constituent materials

Reference product mass

350.85 g including the product, its packaging, additional elements and accessories



Plastics	62.6%
Others	33.5%
Metals	3.9%



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:	80%	The recyclability rate was calculated from the recycling rates of each material making up the product based on REEECY'LAB 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 73% of the time with a power use of 5.28 W and 27% of the time with off mode with power use of 0W for 10 years		
Time representativeness	The collected data are representative of the year 2025		
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	
	Germany, Europe	Global	
Energy model used	[A1 - A3]	[A5]	[B6]
	Electricity Mix; High voltage; 2020; Germany, DE	No energy used	Electricity Mix; Low voltage; 2020; Global, GLO
			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		Harmony XV4 ø40mm Optimum Tower Light With Buzzer - XV4C9S, XV4C55, XV4C23C, XV4C21MX, XV4C020, XVZ02Q						
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	1.69E+02	4.79E+00	4.08E-02	0*	1.64E+02	3.33E-01	-8.53E-01
Contribution to climate change-fossil	kg CO2 eq	1.67E+02	4.80E+00	4.08E-02	0*	1.62E+02	3.31E-01	-8.19E-01
Contribution to climate change-biogenic	kg CO2 eq	1.72E+00	0*	0*	0*	1.73E+00	2.00E-03	-3.38E-02
Contribution to climate change-land use and land use change	kg CO2 eq	3.19E-04	3.19E-04	0*	0*	0*	0*	-2.82E-04
Contribution to ozone depletion	kg CFC-11 eq	1.50E-06	7.80E-07	3.60E-08	0*	6.88E-07	1.04E-09	-2.06E-08
Contribution to acidification	mol H+ eq	8.73E-01	3.22E-02	1.78E-04	0*	8.40E-01	9.93E-04	-2.05E-03
Contribution to eutrophication, freshwater	kg P eq	2.78E-04	2.34E-05	0*	0*	2.53E-04	2.17E-06	-6.88E-06
Contribution to eutrophication, marine	kg N eq	1.06E-01	4.75E-03	8.20E-05	1.55E-05	1.01E-01	2.92E-04	-4.16E-04
Contribution to eutrophication, terrestrial	mol N eq	1.35E+00	5.26E-02	8.88E-04	1.58E-04	1.30E+00	3.31E-03	-4.40E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.45E-01	1.51E-02	2.91E-04	3.78E-05	3.29E-01	7.84E-04	-1.48E-03
Contribution to resource use, minerals and metals	kg Sb eq	4.79E-03	4.76E-03	0*	0*	3.46E-05	0*	-8.91E-06
Contribution to resource use, fossils	MJ	3.54E+03	8.12E+01	5.08E-01	0*	3.45E+03	3.33E+00	-2.08E+01
Contribution to water use	m3 eq	1.43E+01	4.29E+00	2.07E-03	5.76E-03	9.98E+00	2.55E-02	-2.11E+00

Inventory flows Indicators		Harmony XV4 ø40mm Optimum Tower Light With Buzzer - XV4C9S, XV4C55, XV4C23C, XV4C21MX, XV4C020, XVZ02Q							
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	5.67E+02	5.94E+00	0*	0*	5.61E+02	5.23E-01	-1.13E+00	
Contribution to renewable primary energy used as raw material	MJ	4.27E-01	4.27E-01	0*	0*	0*	0*	0.00E+00	
Contribution to total renewable primary energy	MJ	5.68E+02	6.37E+00	0*	0*	5.61E+02	5.23E-01	-1.13E+00	
Contribution to non renewable primary energy used as energy	MJ	3.53E+03	7.30E+01	5.08E-01	0*	3.45E+03	3.33E+00	-1.40E+01	
Contribution to non renewable primary energy used as raw material	MJ	8.26E+00	8.26E+00	0*	0*	0*	0*	-6.75E+00	
Contribution to total non renewable primary energy	MJ	3.54E+03	8.12E+01	5.08E-01	0*	3.45E+03	3.33E+00	-2.08E+01	
Contribution to use of secondary material	kg	4.72E-02	4.72E-02	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	3.33E-01	9.95E-02	4.83E-05	1.34E-04	2.33E-01	5.78E-04	-4.92E-02	
Contribution to hazardous waste disposed	kg	1.36E+01	9.76E+00	0*	0*	3.81E+00	5.49E-02	-5.99E-01	
Contribution to non hazardous waste disposed	kg	2.90E+01	3.02E+00	0*	6.29E-02	2.59E+01	3.34E-02	-5.89E-01	
Contribution to radioactive waste disposed	kg	6.60E-03	1.44E-03	8.12E-06	0*	5.15E-03	5.77E-06	-3.14E-04	
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00	
Contribution to materials for recycling	kg	2.38E-01	7.02E-03	0*	0*	0*	2.31E-01	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	2.16E-05	2.16E-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 1.79E-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%)

Mandatory Indicators		Harmony XV4 ø40mm Optimum Tower Light With Buzzer - XV4C9S, XV4C55, XV4C23C, XV4C21MX, XV4C020, XVZ02Q							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	1.64E+02	0*	0*	0*	0*	0*	1.64E+02	0*
Contribution to climate change-fossil	kg CO2 eq	1.62E+02	0*	0*	0*	0*	0*	1.62E+02	0*
Contribution to climate change-biogenic	kg CO2 eq	1.73E+00	0*	0*	0*	0*	0*	1.73E+00	0*
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	6.88E-07	0*	0*	0*	0*	0*	6.88E-07	0*
Contribution to acidification	mol H+ eq	8.40E-01	0*	0*	0*	0*	0*	8.40E-01	0*
Contribution to eutrophication, freshwater	kg P eq	2.53E-04	0*	0*	0*	0*	0*	2.53E-04	0*
Contribution to eutrophication marine	kg N eq	1.01E-01	0*	0*	0*	0*	0*	1.01E-01	0*
Contribution to eutrophication, terrestrial	mol N eq	1.30E+00	0*	0*	0*	0*	0*	1.30E+00	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.29E-01	0*	0*	0*	0*	0*	3.29E-01	0*
Contribution to resource use, minerals and metals	kg Sb eq	3.46E-05	0*	0*	0*	0*	0*	3.46E-05	0*
Contribution to resource use, fossils	MJ	3.45E+03	0*	0*	0*	0*	0*	3.45E+03	0*
Contribution to water use	m³ eq	9.98E+00	0*	0*	0*	0*	0*	9.98E+00	0*

Inventory flows Indicators		Harmony XV4 ø40mm Optimum Tower Light With Buzzer - XV4C9S, XV4C55, XV4C23C, XV4C21MX, XV4C020, XVZ02Q							
Inventory flows	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	5.61E+02	0*	0*	0*	0*	0*	5.61E+02	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	5.61E+02	0*	0*	0*	0*	0*	5.61E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.45E+03	0*	0*	0*	0*	0*	3.45E+03	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	3.45E+03	0*	0*	0*	0*	0*	3.45E+03	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m³	2.33E-01	0*	0*	0*	0*	0*	2.33E-01	0*
Contribution to hazardous waste disposed	kg	3.81E+00	0*	0*	0*	0*	0*	3.81E+00	0*
Contribution to non hazardous waste disposed	kg	2.59E+01	0*	0*	0*	0*	0*	2.59E+01	0*
Contribution to radioactive waste disposed	kg	5.15E-03	0*	0*	0*	0*	0*	5.15E-03	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	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 v6.2.5-6, database version 2024-01 in compliance with ISO14044, EF3.1 method is applied, for biogenic carbon storage, assessment methodology -1/1 is used

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 :	ENVPEP2508015_V1	Drafting rules Supplemented by Information and reference documents Validity period	PEP-PCR-ed4-2021 09 06 PSR-0005-ed3.1-EN-2023 12 08 www.pep-ecopassport.org 5 years
Independent verification of the declaration and data, in compliance with ISO 14021 : 2016			

Internal External

The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDmain)

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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