Product Environmental Profile

Harmony XVR Rotating Beacons







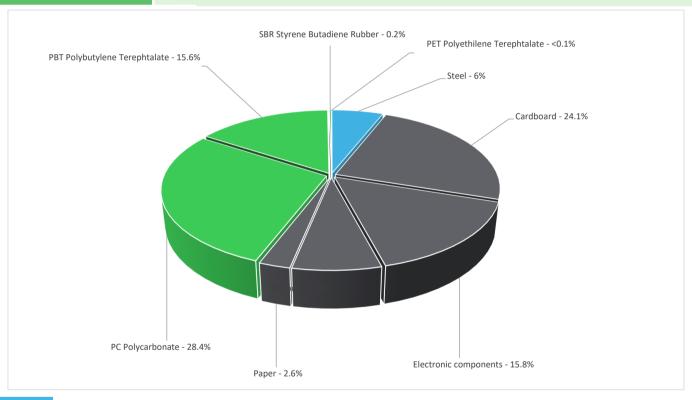
General information

Reference product	Harmony XVR Rotating Beacons - XVR3B03S
Description of the product	The product is an optical and audible signaling unit designed for long distance signaling applications. They are used mainly in the factory applications, construction vehicles, industrial handling vehicles, safety applications and in public areas.
Description of the range	Single product
Functional unit	This illuminated beacon is designed as lighting accessory for tower light which helps to monitor an event by providing audible and visual signaling for safety and factory applications, construction vehicles and in public areas during 10 years of lifetime with a 5% use rate and the product is adhering to international standards.
	IP degree of protection : IP23
Specifications are:	Ambient air temperature for operation :-2050 °C
Specifications are:	Ambient air temperature for storage : -3570 °C
	Vibration resistance : 4.6 gn (sideways), 4.6 gn (inverted), 7.1 gn (upright)

<u>&</u>

Constituent materials

Reference product mass 676.4 g including the product, its packaging, additional elements and accessories



 Metals
 6.0%

 Others
 49.8%

 Plastics
 44.2%

E | Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric website $\frac{\text{https://www.se.com}}{\text{otherwise}}$

(19) Additional environmental information

End Of Life

Recyclability potential:

10%

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).

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 consumtion	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 ope	rations								
Use scenario	The product is in active mode 5% with a power use of 3.1W and off mode 95% with a power use of 0W during 10 years of lifetime.									
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	Final assembly site Use phase End-of-life									
representativeness	Batam, Indonesia Global Global									
	[A1 - A3]	[A5]	[B6]	[C1 - C4]						
Energy model used	Electricity Mix; High voltage; 2020; Indonesia, ID	No energy used	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 XVR Rotating Beacons - XVR3B03S							
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	2.23E+01	1.40E+01	4.78E-01	7.54E-03	6.58E+00	1.26E+00	-1.71E-01
Contribution to climate change-fossil	kg CO2 eq	2.25E+01	1.43E+01	4.78E-01	6.77E-03	6.51E+00	1.26E+00	-1.69E-01
Contribution to climate change-biogenic	kg CO2 eq	-2.00E-01	-2.71E-01	0*	0*	0*	0*	-2.17E-03
Contribution to climate change-land use and land use change	kg CO2 eq	2.91E-04	2.91E-04	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	3.14E-06	2.69E-06	4.21E-07	0*	2.77E-08	4.20E-09	-2.82E-08
Contribution to acidification	mol H+ eq	1.15E-01	7.82E-02	2.04E-03	9.31E-05	3.38E-02	1.27E-03	-2.42E-03
Contribution to eutrophication, freshwater	kg P eq	5.65E-05	4.44E-05	5.59E-08	3.42E-08	1.02E-05	1.91E-06	-2.55E-07
Contribution to eutrophication, marine	kg N eq	1.60E-02	1.05E-02	9.36E-04	4.40E-05	4.04E-03	4.53E-04	-1.09E-04
Contribution to eutrophication, terrestrial	mol N eq	1.83E-01	1.15E-01	1.01E-02	4.49E-04	5.22E-02	5.10E-03	-1.28E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	5.53E-02	3.74E-02	3.34E-03	1.08E-04	1.32E-02	1.25E-03	-5.24E-04
Contribution to resource use, minerals and metals	kg Sb eq	7.64E-03	7.64E-03	0*	0*	1.39E-06	0*	-6.31E-05
Contribution to resource use, fossils	MJ	3.44E+02	1.97E+02	5.94E+00	7.94E-02	1.39E+02	2.83E+00	-3.87E+00
Contribution to water use	m3 eq	4.86E+00	4.32E+00	2.42E-02	1.64E-02	4.01E-01	9.54E-02	-1.39E-01

Inventory flows Indicators				Harmony XVR Rotating Beacons - XVR3B03S								
Unit	Total (without Module D)	[A1 - A3] - Manufacturing	[A4] - Distribution	[A5] - Installation	[B1 - B7] - Use	[C1 - C4] - End of life	[D] - Benefits and loads					
MJ	3.53E+01	1.27E+01	0*	0*	2.25E+01	6.39E-02	-6.73E-02					
MJ	7.90E-01	7.90E-01	0*	0*	0*	0*	0.00E+00					
MJ	3.61E+01	1.34E+01	0*	0*	2.25E+01	6.39E-02	-6.73E-02					
MJ	3.31E+02	1.83E+02	5.94E+00	7.94E-02	1.39E+02	2.83E+00	-3.87E+00					
MJ	1.34E+01	1.34E+01	0*	0*	0*	0*	0.00E+00					
MJ	3.44E+02	1.97E+02	5.94E+00	7.94E-02	1.39E+02	2.83E+00	-3.87E+00					
kg	1.60E-01	1.60E-01	0*	0*	0*	0*	0.00E+00					
MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00					
MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00					
m³	1.12E-01	9.98E-02	5.64E-04	3.83E-04	9.37E-03	2.30E-03	-3.24E-03					
kg	2.41E+01	2.39E+01	0*	0*	1.53E-01	9.63E-02	-4.96E+00					
kg	1.31E+01	1.14E+01	0*	1.79E-01	1.04E+00	4.33E-01	-1.26E-01					
kg	6.96E-03	6.64E-03	9.50E-05	0*	2.07E-04	1.71E-05	-5.75E-05					
kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00					
kg	1.42E-01	9.36E-02	0*	0*	0*	4.88E-02	0.00E+00					
kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00					
MJ	4.24E-04	3.46E-05	0*	0*	0*	3.89E-04	0.00E+00					
nce flow												
kg of C	0.00E+00											
	MJ MJ MJ MJ MJ MJ MJ MJ kg MJ m³ kg	MJ 3.53E+01 MJ 7.90E-01 MJ 7.90E-01 MJ 3.61E+01 MJ 3.31E+02 MJ 1.34E+01 MJ 3.44E+02 kg 1.60E-01 MJ 0.00E+00 MJ 0.00E+00 m³ 1.12E-01 kg 2.41E+01 kg 1.31E+01 kg 6.96E-03 kg 0.00E+00 kg 1.42E-01 kg 0.00E+00 MJ 4.24E-04	MJ 3.53E+01 1.27E+01 MJ 7.90E-01 7.90E-01 MJ 3.61E+01 1.34E+01 MJ 3.31E+02 1.83E+02 MJ 1.34E+01 1.34E+01 MJ 3.44E+02 1.97E+02 kg 1.60E-01 1.60E-01 MJ 0.00E+00 0* MJ 0.00E+00 0* MJ 0.00E+01 2.39E+01 kg 1.31E+01 1.14E+01 kg 6.96E-03 6.64E-03 kg 0.00E+00 0* MJ 4.24E-04 3.46E-05 moe flow	Unit Total (without Module D) [A1 - A3] - Manufacturing [A4] - Distribution MJ 3.53E+01 1.27E+01 0* MJ 7.90E-01 7.90E-01 0* MJ 3.61E+01 1.34E+01 0* MJ 3.31E+02 1.83E+02 5.94E+00 MJ 1.34E+01 0* MJ 3.44E+02 1.97E+02 5.94E+00 kg 1.60E-01 1.60E-01 0* MJ 0.00E+00 0* 0* MJ 0.00E+00 0* 0* m³ 1.12E-01 9.98E-02 5.64E-04 kg 2.41E+01 2.39E+01 0* kg 6.96E-03 6.64E-03 9.50E-05 kg 0.00E+00 0* 0* kg 0.00E+00 0* 0* MJ 4.24E-01 9.36E-02 0* MJ 4.24E-04 3.46E-05 0*	Unit Total (without Module D) [A1 - A3] - Manufacturing [A4] - Distribution [A5] - Installation MJ 3.53E+01 1.27E+01 0* 0* MJ 7.90E-01 7.90E-01 0* 0* MJ 3.61E+01 1.34E+01 0* 0* MJ 3.31E+02 1.83E+02 5.94E+00 7.94E-02 MJ 1.34E+01 1.34E+01 0* 0* MJ 3.44E+02 1.97E+02 5.94E+00 7.94E-02 kg 1.60E-01 1.60E-01 0* 0* MJ 0.00E+00 0* 0* 0* MJ 0.00E+00 0* 0* 0* ma 1.12E-01 9.98E-02 5.64E-04 3.83E-04 kg 2.41E+01 2.39E+01 0* 0* kg 1.31E+01 1.14E+01 0* 1.79E-01 kg 6.96E-03 6.64E-03 9.50E-05 0* kg 0.00E+00 0* 0* <t< td=""><td>Unit Total (without Module D) [A1 - A3] - Manufacturing [A4] - Distribution [A5] - Installation [B1 - B7] - Use MJ 3.53E+01 1.27E+01 0° 0° 0° 2.25E+01 MJ 7.90E-01 7.90E-01 0° 0° 0° 0° MJ 3.61E+01 1.34E+01 0° 0° 2.25E+01 MJ 3.31E+02 1.83E+02 5.94E+00 7.94E-02 1.39E+02 MJ 1.34E+01 1.34E+01 0° 0° 0° MJ 3.44E+02 1.97E+02 5.94E+00 7.94E-02 1.39E+02 kg 1.60E-01 1.60E-01 0° 0° 0° MJ 0.00E+00 0° 0° 0° 0° MJ 0.00E+00 0° 0° 0° 0° MJ 0.00E+00 0° 0° 0° 0° Mg 2.41E+01 2.39E+01 0° 1.79E-01 1.04E+00 kg 6.96E-03 6</td><td>Unit Total (without Module D) [A1 - A3] - Manufacturing [A4] - Distribution [A5] - Installation [B1 - B7] - Use [C1 - C4] - End of life MJ 3.53E+01 1.27E+01 0° 0° 2.25E+01 6.39E-02 MJ 7.90E-01 7.90E-01 0° 0° 0° 0° MJ 3.61E+01 1.34E+01 0° 0° 2.25E+01 6.39E-02 MJ 3.31E+02 1.83E+02 5.94E+00 7.94E-02 1.39E+02 2.83E+00 MJ 1.34E+01 1.34E+01 0° 0° 0° 0° 0° MJ 3.44E+02 1.97E+02 5.94E+00 7.94E-02 1.39E+02 2.83E+00 kg 1.60E-01 1.60E-01 0° 0° 0° 0° 0° MJ 0.00E+00 0° 0° 0° 0° 0° 0° 0° MJ 0.00E+00 0° 0° 0° 0° 0° 0° 0° 0° 0° 0°</td></t<>	Unit Total (without Module D) [A1 - A3] - Manufacturing [A4] - Distribution [A5] - Installation [B1 - B7] - Use MJ 3.53E+01 1.27E+01 0° 0° 0° 2.25E+01 MJ 7.90E-01 7.90E-01 0° 0° 0° 0° MJ 3.61E+01 1.34E+01 0° 0° 2.25E+01 MJ 3.31E+02 1.83E+02 5.94E+00 7.94E-02 1.39E+02 MJ 1.34E+01 1.34E+01 0° 0° 0° MJ 3.44E+02 1.97E+02 5.94E+00 7.94E-02 1.39E+02 kg 1.60E-01 1.60E-01 0° 0° 0° MJ 0.00E+00 0° 0° 0° 0° MJ 0.00E+00 0° 0° 0° 0° MJ 0.00E+00 0° 0° 0° 0° Mg 2.41E+01 2.39E+01 0° 1.79E-01 1.04E+00 kg 6.96E-03 6	Unit Total (without Module D) [A1 - A3] - Manufacturing [A4] - Distribution [A5] - Installation [B1 - B7] - Use [C1 - C4] - End of life MJ 3.53E+01 1.27E+01 0° 0° 2.25E+01 6.39E-02 MJ 7.90E-01 7.90E-01 0° 0° 0° 0° MJ 3.61E+01 1.34E+01 0° 0° 2.25E+01 6.39E-02 MJ 3.31E+02 1.83E+02 5.94E+00 7.94E-02 1.39E+02 2.83E+00 MJ 1.34E+01 1.34E+01 0° 0° 0° 0° 0° MJ 3.44E+02 1.97E+02 5.94E+00 7.94E-02 1.39E+02 2.83E+00 kg 1.60E-01 1.60E-01 0° 0° 0° 0° 0° MJ 0.00E+00 0° 0° 0° 0° 0° 0° 0° MJ 0.00E+00 0° 0° 0° 0° 0° 0° 0° 0° 0° 0°					

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 5.18E-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	ndatory Indicators Harmony XVR Rotating Beacons						- XVR3B03S		
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	6.58E+00	0*	0*	0*	0*	0*	6.58E+00	0*
Contribution to climate change-fossil	kg CO2 eq	6.51E+00	0*	0*	0*	0*	0*	6.51E+00	0*
Contribution to climate change-biogenic	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	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	2.77E-08	0*	0*	0*	0*	0*	2.77E-08	0*
Contribution to acidification	mol H+ eq	3.38E-02	0*	0*	0*	0*	0*	3.38E-02	0*
Contribution to eutrophication, freshwater	kg P eq	1.02E-05	0*	0*	0*	0*	0*	1.02E-05	0*
Contribution to eutrophication marine	kg N eq	4.04E-03	0*	0*	0*	0*	0*	4.04E-03	0*
Contribution to eutrophication, terrestrial	mol N eq	5.22E-02	0*	0*	0*	0*	0*	5.22E-02	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.32E-02	0*	0*	0*	0*	0*	1.32E-02	0*
Contribution to resource use, minerals and metals	kg Sb eq	1.39E-06	0*	0*	0*	0*	0*	1.39E-06	0*
Contribution to resource use, fossils	MJ	1.39E+02	0*	0*	0*	0*	0*	1.39E+02	0*
Contribution to water use	m3 eq	4.01E-01	0*	0*	0*	0*	0*	4.01E-01	0*

Inventory flows Indicators	Harmony XVR Rotating Beacons - XVR3B03S								
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	2.25E+01	0*	0*	0*	0*	0*	2.25E+01	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	2.25E+01	0*	0*	0*	0*	0*	2.25E+01	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.39E+02	0*	0*	0*	0*	0*	1.39E+02	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	1.39E+02	0*	0*	0*	0*	0*	1.39E+02	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	9.37E-03	0*	0*	0*	0*	0*	9.37E-03	0*
Contribution to hazardous waste disposed	kg	1.53E-01	0*	0*	0*	0*	0*	1.53E-01	0*
Contribution to non hazardous waste disposed	kg	1.04E+00	0*	0*	0*	0*	0*	1.04E+00	0*
Contribution to radioactive waste disposed	kg	2.07E-04	0*	0*	0*	0*	0*	2.07E-04	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 v6.3.0.1-4, 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.

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Registration number:	ENVPEP2506030_V1	Drafting rules	PEP-PCR-ed4-2021 09 06
		Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Date of issue	06-2025	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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