Product Environmental Profile

Harmony XVB7 Ø70mm Beacon With IO Link Base



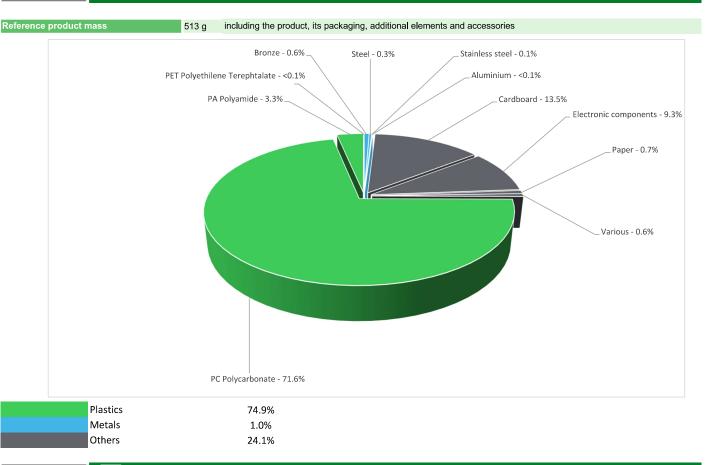




General information

Reference product	Harmony XVB7 Ø70mm Beacon With IO Link Base - XVB7L65, XVB7CR4, XVB7CM9, XVB7C31							
Description of the product	The representative product used for the analysis is consisting of various units which includes IO link base, lighting elements (XVB7L65, XVB7CR4, XVB7CM9, XVB7C31). The beacons of XVB7 range are visual or audible signaling units are used for indicating throughout 360° at a distance and indicates the various states or operation sequences of a machine or installation.							
	Examples: starting or stopping a machine, insufficient material, calling personnel, etc.							
Description of the range	Single product							
Functional unit	This product is a highly customizable visual and audible signal indicator that can be precisely controlled through an IO-Link which is typically mounted on a tower used to alert people of a specific status or condition from a distance often by flashing a bright light and can indicate things like machine operation, warnings, hazards particularly in industrial applications with highly visible warning or status indicator with 360-degree visibility in life span of 10 years. This product will be active for 73% of the time with a power consumption of 3.168W and adhering to standards IEC 60947-5-1.							
	Ambient air temperature for operation : -40-70 °C Up to IP66 and type 4X protection ratings							
Specifications are:	Certifications : CCC,EAC,CSA C22-2 No 14, UL508							
	Energy efficient LED with an operating life of up to 50000 hours							
	High shock and vibration resistance up to 6g							

Constituent materials



Substance assessment

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

(1) Additional environmental information

End Of Life

Recyclability potential:

90%

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	on, the use and the end of life w	ere taken into consideration in th	nis study					
Electricity consumtion	The electricity consumed during manufacturing p a negligable consumption	The electricity consumed during manufacturing processes is considered for each part of the product individually, the final assembly generates a negligable consumption							
Installation elements	The product does not require any installation ope	rations							
Use scenario	The product is in active mode 73% of the time with a power use of 3.168 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 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 représentaive of the actual type of technologies used to make the product.								
Geographical representativeness	Final assembly site Use phase End-of-life								
representativeness	Germany Global Global								
	[A1 - A3] [A5] [B6] [C1 - C4]								
Energy model used	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 XVB7 ø70mm Beacon With IO Link Base - XVB7L65, XVB7								CR4, XVB7CM9, XVB7C31			
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 Ioads			
Contribution to climate change	kg CO2 eq	1.04E+02	5.38E+00	1.79E-01	0*	9.82E+01	4.90E-01	-1.47E+00			
Contribution to climate change-fossil	kg CO2 eq	1.03E+02	5.44E+00	1.79E-01	0*	9.72E+01	4.89E-01	-1.41E+00			
Contribution to climate change-biogenic	kg CO2 eq	9.78E-01	0*	0*	0*	1.04E+00	1.69E-03	-5.97E-02			
Contribution to climate change-land use and land use change	kg CO2 eq	5.60E-04	5.60E-04	0*	0*	0*	0*	-4.96E-04			
Contribution to ozone depletion	kg CFC-11 eq	1.71E-06	1.14E-06	1.58E-07	0*	4.13E-07	3.51E-09	-3.32E-08			
Contribution to acidification	mol H+ eq	5.33E-01	2.60E-02	7.82E-04	0*	5.04E-01	2.06E-03	-3.58E-03			
Contribution to eutrophication, freshwater	kg P eq	2.37E-04	2.66E-05	0*	0*	1.52E - 04	5.89E-05	-1.21E-05			
Contribution to eutrophication, marine	kg N eq	6.59E-02	4.73E-03	3.59E-04	1.79E - 05	6.03E-02	5.27E-04	-7.16E-04			
Contribution to eutrophication, terrestrial	mol N eq	8.39E-01	4.98E-02	3.90E-03	1.82E-04	7.79E-01	6.06E-03	-7.55E-03			
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.16E-01	1.59E-02	1.28E-03	4.38E-05	1.97E-01	1.47E-03	-2.55E-03			
Contribution to resource use, minerals and metals	kg Sb eq	9.78E-04	9.55E-04	0*	0*	2.08E-05	1.86E-06	-9.68E-06			
Contribution to resource use, fossils	MJ	2.18E+03	1.04E+02	2.23E+00	0*	2.07E+03	6.34E+00	-3.59E+01			
Contribution to water use	m3 eq	8.84E+00	2.77E+00	9.09E-03	6.66E-03	5.99E+00	6.46E-02	-1.29E+00			

Inventory flows Indicators		Harmony XVB7 ø70mm Beacon With IO Link Base - XVB7L65, XVB7CR4, XVB7CM9, XVB7C31							
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 Ioads	
Contribution to renewable primary energy used as energy	MJ	3.42E+02	4.70E+00	0*	0*	3.36E+02	7.98E-01	-1.96E+00	
Contribution to renewable primary energy used as raw material	MJ	2.73E-01	2.73E-01	0*	0*	0*	0*	0.00E+00	
Contribution to total renewable primary energy	MJ	3.42E+02	4.97E+00	0*	0*	3.36E+02	7.98E-01	-1.96E+00	
Contribution to non renewable primary energy used as energy	MJ	2.17E+03	9.02E+01	2.23E+00	0*	2.07E+03	6.34E+00	-2.40E+01	
Contribution to non renewable primary energy used as raw material	MJ	1.42E+01	1.42E+01	0*	0*	0*	0*	-1.19E+01	
Contribution to total non renewable primary energy	MJ	2.18E+03	1.04E+02	2.23E+00	0*	2.07E+03	6.34E+00	-3.59E+01	
Contribution to use of secondary material	kg	6.70E-02	6.70E-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	2.06E-01	6.44E-02	2.12E-04	1.55E-04	1.40E-01	1.50E-03	-3.01E-02	
Contribution to hazardous waste disposed	kg	6.33E+00	3.99E+00	0*	0*	2.29E+00	4.53E-02	-8.28E-01	
Contribution to non hazardous waste disposed	kg	2.03E+01	4.61E+00	0*	7.28E-02	1.55E+01	7.92E-02	-1.01E+00	
Contribution to radioactive waste disposed	kg	1.17E-02	8.55E-03	3.56E-05	0*	3.09E-03	2.94E-05	-5.43E-04	
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00	
Contribution to materials for recycling	kg	3.95E-01	6.12E-04	0*	0*	0*	3.94E-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	1.70E-05	1.51E-05	0*	0*	0*	1.90E-06	0.00E+00	
* represents less than 0.01% of the total life cycle of the refere	nce 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	2.07E-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 XVB7 ø70mm Beacon With IO Link Base - XVB7L65, XVB7CR4, XVB7CM9, XVB7C						, XVB7CM9, XVB7C31		
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	9.82E+01	0*	0*	0*	0*	0*	9.82E+01	0*
Contribution to climate change-fossil	kg CO2 eq	9.72E+01	0*	0*	0*	0*	0*	9.72E+01	0*
Contribution to climate change-biogenic	kg CO2 eq	1.04E+00	0*	0*	0*	0*	0*	1.04E+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	4.13E-07	0*	0*	0*	0*	0*	4.13E-07	0*
Contribution to acidification	mol H+ eq	5.04E-01	0*	0*	0*	0*	0*	5.04E-01	0*
Contribution to eutrophication, freshwater	kg P eq	1.52E-04	0*	0*	0*	0*	0*	1.52E-04	0*
Contribution to eutrophication marine	kg N eq	6.03E-02	0*	0*	0*	0*	0*	6.03E-02	0*
Contribution to eutrophication, terrestrial	mol N eq	7.79E-01	0*	0*	0*	0*	0*	7.79E-01	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.97E-01	0*	0*	0*	0*	0*	1.97E-01	0*
Contribution to resource use, minerals and metals	kg Sb eq	2.08E-05	0*	0*	0*	0*	0*	2.08E-05	0*
Contribution to resource use, fossils	MJ	2.07E+03	0*	0*	0*	0*	0*	2.07E+03	0*
Contribution to water use	m3 eq	5.99E+00	0*	0*	0*	0*	0*	5.99E+00	0*
Inventory flows Indicators		Harme	ny YVR7	a70mm Boacc	n With IO	Link Ba	so - YVR	71.65 YVR7CD4	XVB7CM9_XVB7C31

Inventory flows Indicators		Harmo	ny XVB7	7 ø70mm Beacor	With IO	Link Ba	se - XVB	7L65, XVB7CR4	, XVB7CM9, XVB7C31
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	3.36E+02	0*	0*	0*	0*	0*	3.36E+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	3.36E+02	0*	0*	0*	0*	0*	3.36E+02	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.07E+03	0*	0*	0*	0*	0*	2.07E+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	2.07E+03	0*	0*	0*	0*	0*	2.07E+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	1.40E-01	0*	0*	0*	0*	0*	1.40E-01	0*
Contribution to hazardous waste disposed	kg	2.29E+00	0*	0*	0*	0*	0*	2.29E+00	0*
Contribution to non hazardous waste disposed	kg	1.55E+01	0*	0*	0*	0*	0*	1.55E+01	0*
Contribution to radioactive waste disposed	kg	3.09E-03	0*	0*	0*	0*	0*	3.09E-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 v6.2.4, 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.

Registration number :	ENVPEP2501028_V2	Drafting rules	PEP-PCR-ed4-2021 09 06							
		Supplemented by	PSR-0005-ed3-2023 06 06							
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	ternal X External									
The PCR review was conducted	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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