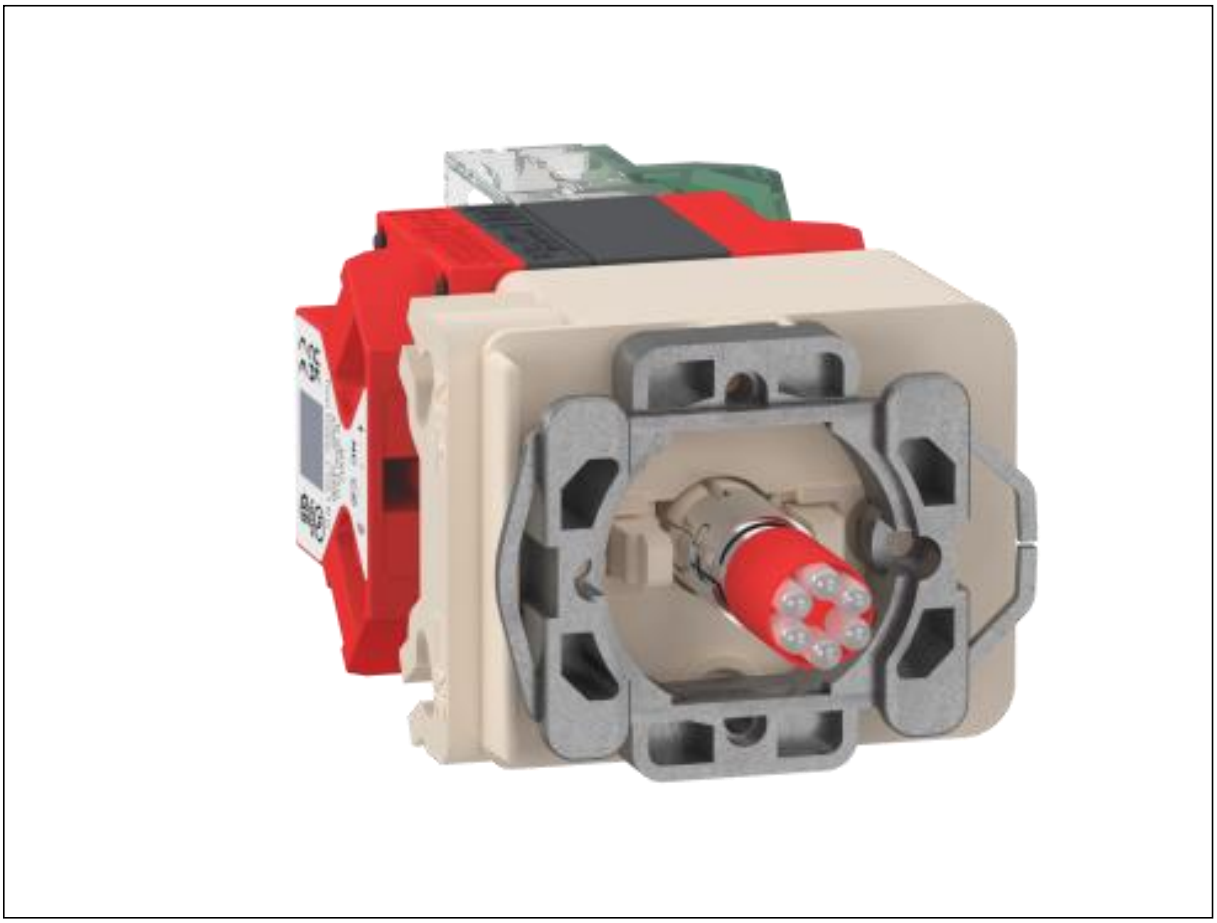
Product Environmental Profile

Harmony ⌀30mm Emergency Stop Illuminated Body

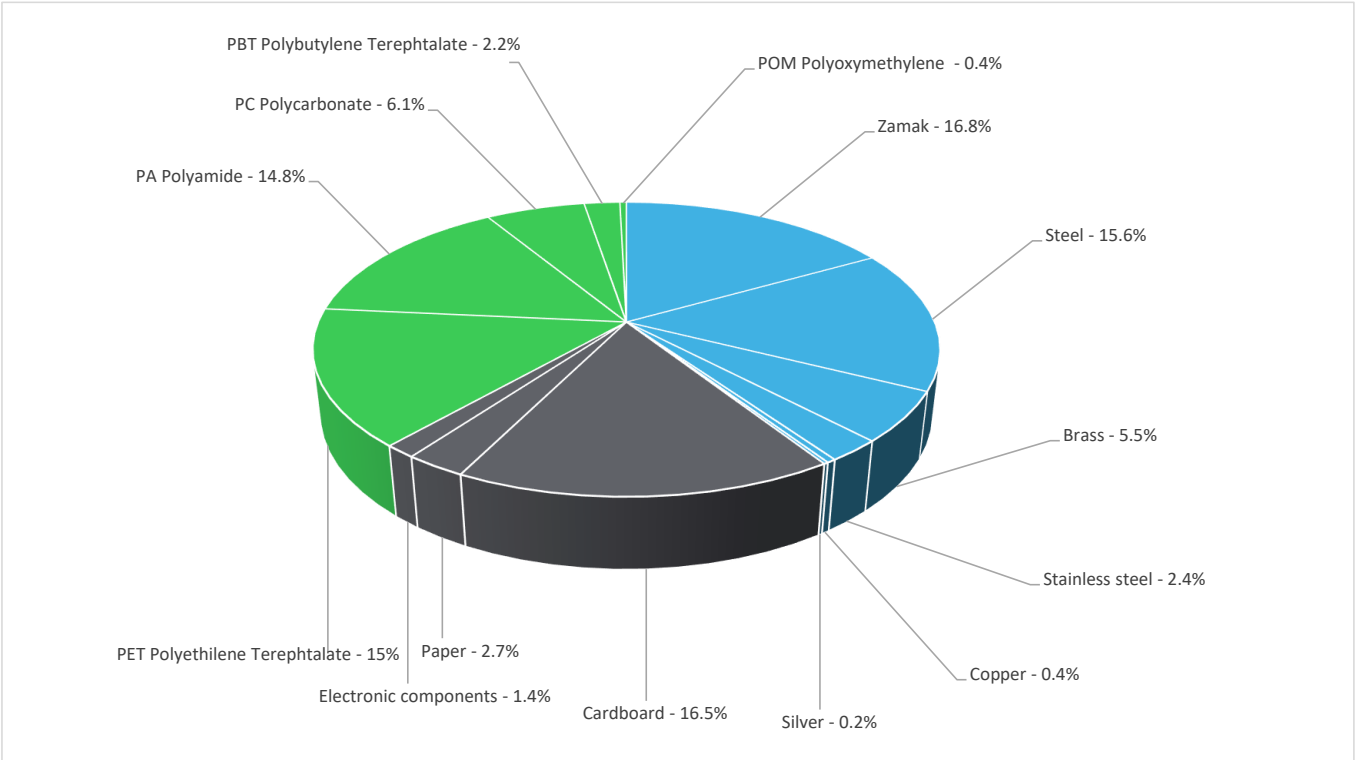


General information

Reference product	Harmony ⌀30mm Emergency Stop Illuminated Body - 9001KES18P35LRRES4
Description of the product	This product is a subset of an emergency stop pushbutton without head which is used to immediately stop the any dangerous movements or processes without creating further hazards to persons that can arise from machinery when it cannot be shut down in the usual manner.
Description of the range	Single product
Functional unit	This subset can be easily installed into a standard 30mm diameter cut-outs and connected with simple screw-clamp connections. It is clearly distinguishable visually at a distance with it's clear color when it configuarted with head. It is an impact resistant, dust resistant, water resistant and vibration resistant which making it ideal for operation in harsh environments. Impact and corrosion resistant metal bezel and body ensures product continues to operate even after severe accidents. Product is adhering to the standards IEC 60947-5-1, IEC 60947-5-5, UL 60947-5-5
Specifications are:	Contact Block : 2 NC + 1 NO Ambient air temperature for storage : -40-70 °C Ambient air temperature for operation : -25-70 °C Product certifications : UL, CSA, CE

Constituent materials

Reference product mass	193.3 g	including the product, its packaging, additional elements and accessories



Plastics	38.5%
Metals	40.9%
Others	20.6%

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:	**50%**	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 negligable consumption
Installation elements	The product does not require any installation operations
Use scenario	The product is in active mode 71% of the time with a power use of 0.424 W and in off mode 29% of the time with a power use of 0 W for 10 years when it is fully configurated with head.
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 représentaive of the actual type of technologies used to make the product.

Geographical representativeness	**Final assembly site**	**Use phase**		**End-of-life**
	Monterrey, Mexico	US		US
Energy model used	**[A1 - A3]**	**[A5]**	**[B6]**	**[C1 - C4]**
	Electricity Mix; High voltage; 2020; Mexico, MX	No energy used	Electricity Mix; Low voltage; 2020; United States, US	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 ø30mm Emergency Stop Illuminated Body - 9001KES18P35LRRES4**						
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	1.43E+01	1.05E+00	1.05E-01	0*	1.27E+01	4.25E-01	-3.57E-01
Contribution to climate change-fossil	kg CO2 eq	1.43E+01	1.13E+00	1.05E-01	0*	1.26E+01	4.24E-01	-3.56E-01
Contribution to climate change-biogenic	kg CO2 eq	-8.40E-03	-7.42E-02	0*	0*	0*	0*	-1.12E-03
Contribution to climate change-land use and land use change	kg CO2 eq	1.84E-05	1.84E-05	0*	0*	0*	2.79E-09	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	3.46E-07	2.04E-07	9.25E-08	5.82E-11	4.91E-08	5.51E-10	-8.38E-08
Contribution to acidification	mol H+ eq	6.64E-02	7.13E-03	4.60E-04	1.97E-05	5.78E-02	9.82E-04	-2.13E-03
Contribution to eutrophication, freshwater	kg P eq	4.35E-05	1.70E-05	1.23E-08	7.25E-09	2.10E-05	5.47E-06	-8.36E-07
Contribution to eutrophication, marine	kg N eq	8.83E-03	1.09E-03	2.12E-04	9.31E-06	7.28E-03	2.37E-04	-2.04E-04
Contribution to eutrophication, terrestrial	mol N eq	1.03E-01	1.16E-02	2.29E-03	9.48E-05	8.60E-02	2.64E-03	-2.32E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.94E-02	3.78E-03	7.50E-04	2.28E-05	2.41E-02	8.17E-04	-8.51E-04
Contribution to resource use, minerals and metals	kg Sb eq	4.38E-04	4.36E-04	0*	0*	1.92E-06	1.37E-07	-7.35E-05
Contribution to resource use, fossils	MJ	3.15E+02	2.15E+01	1.30E+00	0*	2.75E+02	1.69E+01	-6.19E+00
Contribution to water use	m3 eq	1.26E+00	4.24E-01	5.32E-03	3.47E-03	6.38E-01	1.94E-01	-7.98E+00

Inventory flows Indicators		Harmony ø30mm Emergency Stop Illuminated Body - 9001KES18P35LRRES4						
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	3.48E+01	1.26E+00	0*	0*	3.36E+01	6.01E-03	-1.35E-01
Contribution to renewable primary energy used as raw material	MJ	1.94E-01	1.94E-01	0*	0*	0*	0*	0.00E+00
Contribution to total renewable primary energy	MJ	3.50E+01	1.45E+00	0*	0*	3.36E+01	6.01E-03	-1.35E-01
Contribution to non renewable primary energy used as energy	MJ	3.13E+02	1.96E+01	1.30E+00	0*	2.75E+02	1.69E+01	-6.19E+00
Contribution to non renewable primary energy used as raw material	MJ	1.85E+00	1.85E+00	0*	0*	0*	0*	0.00E+00
Contribution to total non renewable primary energy	MJ	3.15E+02	2.15E+01	1.30E+00	0*	2.75E+02	1.69E+01	-6.19E+00
Contribution to use of secondary material	kg	3.22E-02	3.22E-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	m^3	3.19E-02	9.88E-03	1.24E-04	8.07E-05	1.49E-02	7.00E-03	-2.26E-01
Contribution to hazardous waste disposed	kg	6.14E+00	5.90E+00	0*	0*	2.37E-01	2.43E-03	-5.62E+00
Contribution to non hazardous waste disposed	kg	3.09E+00	1.09E+00	0*	3.79E-02	1.88E+00	8.51E-02	-1.82E-01
Contribution to radioactive waste disposed	kg	1.11E-03	6.39E-04	2.08E-05	0*	4.44E-04	3.48E-06	-8.38E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	8.87E-02	9.77E-03	0*	0*	0*	7.89E-02	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	8.81E-04	1.00E-04	0*	0*	0*	7.81E-04	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	1.11E-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 ø30mm Emergency Stop Illuminated Body - 9001KES18P35LRRES4							
Impact indicators	Unit	[B1 - B7] - Use	[B1]	[B2]	[B3]	[B4]	[B5]	[B6]	[B7]
Contribution to climate change	kg CO2 eq	1.27E+01	0*	0*	0*	0*	0*	1.27E+01	0*
Contribution to climate change-fossil	kg CO2 eq	1.26E+01	0*	0*	0*	0*	0*	1.26E+01	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	4.91E-08	0*	0*	0*	0*	0*	4.91E-08	0*
Contribution to acidification	mol H+ eq	5.78E-02	0*	0*	0*	0*	0*	5.78E-02	0*
Contribution to eutrophication, freshwater	kg P eq	2.10E-05	0*	0*	0*	0*	0*	2.10E-05	0*
Contribution to eutrophication marine	kg N eq	7.28E-03	0*	0*	0*	0*	0*	7.28E-03	0*
Contribution to eutrophication, terrestrial	mol N eq	8.60E-02	0*	0*	0*	0*	0*	8.60E-02	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.41E-02	0*	0*	0*	0*	0*	2.41E-02	0*
Contribution to resource use, minerals and metals	kg Sb eq	1.92E-06	0*	0*	0*	0*	0*	1.92E-06	0*
Contribution to resource use, fossils	MJ	2.75E+02	0*	0*	0*	0*	0*	2.75E+02	0*
Contribution to water use	m3 eq	6.38E-01	0*	0*	0*	0*	0*	6.38E-01	0*

Inventory flows Indicators		Harmony ⌀30mm Emergency Stop Illuminated Body - 9001KES18P35LRRES4							
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+01	0*	0*	0*	0*	0*	3.36E+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	3.36E+01	0*	0*	0*	0*	0*	3.36E+01	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.75E+02	0*	0*	0*	0*	0*	2.75E+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	2.75E+02	0*	0*	0*	0*	0*	2.75E+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	m^3	1.49E-02	0*	0*	0*	0*	0*	1.49E-02	0*
Contribution to hazardous waste disposed	kg	2.37E-01	0*	0*	0*	0*	0*	2.37E-01	0*
Contribution to non hazardous waste disposed	kg	1.88E+00	0*	0*	0*	0*	0*	1.88E+00	0*
Contribution to radioactive waste disposed	kg	4.44E-04	0*	0*	0*	0*	0*	4.44E-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 v6.2.4, 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 :	ENVPEP2503027_V1	*Drafting rules*	PEP-PCR-ed4-2021 09 06
		Supplemented by	PSR-0005-ed3-2023 06 06
Date of issue	03-2025	*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"

Schneider Electric Industries SAS

Country Customer Care Center
http://www.se.com/contact

Head Office

35, rue Joseph Monier

CS 30323

F- 92500 Rueil Malmaison Cedex

RCS Nanterre 954 503 439
Capital social 928 298 512 €