



LIGHTSWITCH ROCKER PUR EDELSTAHL

Product Environmental Profile Environmental Product Declaration





Document in compliance with ISO 14025: 2006 "Environmental labels and declarations. Type III environmental declarations"

ORGANIZATION		CONTACT INFORMATION						
Busch-Jaeger Elektro GmbH		pia.denninghoff@de.abb.com						
ADDRESS		WEBSITE						
Freisenbergstrasse 2,58513 Lüdensche	eid, Germany	busch-jaeger.com						
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ABB is committed to continually promoting and embedding sustainability across its operations and value chain, aspiring to become a role model for others to follow. With its ABB Purpose, ABB is focusing on reducing harmful emissions, preserving natural resources and championing ethical and humane behavior.



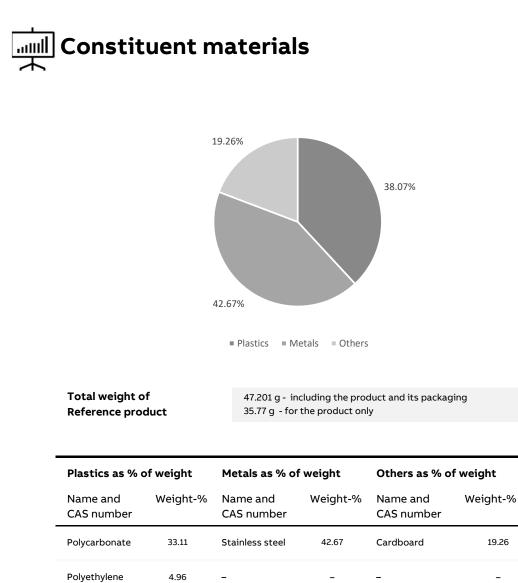
General Information

Reference product	Lightswitch rocker Rocker Pur Edelstahl (2CKA001751A2956).
Description of the product	PC based rockers that provide protection and eastetics to 1-gang BJE switch inserts
Functional unit	Protects persons during 20 years against direct contact with live parts of the "rocker switch mechanism", having the following dimensions 61,81x62,32x19,19 mm.
Other products covered	

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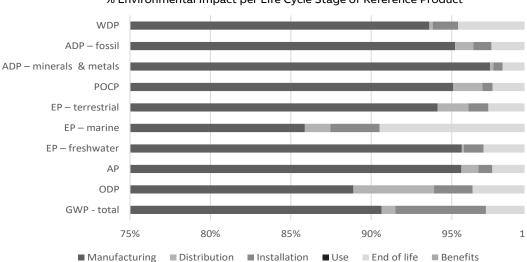
 $\gamma^{\rho}_{\underline{s}}$ Additional Environmental Information

Manufacturing	Manufactured by Busch-Jaeger Elektro GmbH at the Luedenscheid factory, ISO 14001 certified.
Distribution	Transport between the last group distribution centre and an average delivery point in the sales area in Germany, Austria and Netherland.
Installation	For the installation of the product, only standard tools are needed.The installation stage includes the disposal of the packaging and the transport of packaging material to disposal.
Use	The product does not require special maintanence operations
End of life	The end-of-life stage is modelled according to PCR-ed4-EN-2021 09 06 and IEC/TR 62635.
Benefits and loads beyond the system boundaries	n.a.



Environmental impacts

	Reference lifetime	20 years						
	Product category	Other equipments						
	Installation elements	No additional elements needed during installation						
	Use scenario	Reference life time (RLT): 20 years						
	Geographical representativeness	Manufacturing: Germany. Distribution, installation, use and end of life : Germany, Austria Netherland.						
	Technological representativeness	Technological representativness : manfacturing of lightswitch rocker representative of the year 2022"						
	Software and database used	SimaPro 9.4, ecoinvent 3.8, methodology PEF3.0						
	Energy model used							
	Manufacturing	Energy mix of medium voltage, solar and CHP for DE.						
	Installation	Data used to model installation element are representative of european electricity mix.						
	Use	Electricity, low voltage, consumption mix at consumer.						
	End of life	Data used to model installation element are representative of european electricity mix.						
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Common base of mandatory indicators

% Environmental Impact per Life Cycle Stage of Reference Product

Environmental impact indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life	- fits
GWP-total	kg CO₂ eq.	4.60E-01	4.17E-01	4.01E-03	2.59E-02	0.00E+00	1.32E-02	-
GWP-fossil	kg CO₂ eq.	4.41E-01	4.19E-01	4.00E-03	4.38E-03	0.00E+00	1.31E-02	-
GWP-biogenic	kg CO₂ eq.	1.87E-02	-2.84E-03	4.11E-06	2.14E-02	0.00E+00	1.30E-04	-
GWP-luluc GWP-fossil = Global GWP-biogenic = Glob GWP-luluc = Global V	oal Warming Pote	ential biogen	ic	1.45E-06	5.02E-05	0.00E+00	1.27E-05	-
ODP ODP = Depletion por	kg CFC-11 eq.	1.92E-08	1.71E-08	9.63E-10	4.61E-10	0.00E+00	7.11E-10	-
AP = Acidification po	H+ eq.	1.94E-03	1.85E-03	2.03E-05	1.70E-05	0.00E+00	4.79E-05	-
EP-freshwater	kg P eq.	1.88E-04	1.79E-04	2.51E-07	2.28E-06	0.00E+00	5.68E-06	-
EP-marine	kg N eq.	4.41E-04	3.79E-04	6.98E-06	1.35E-05	0.00E+00	4.18E-05	-
EP-terrestrial EP-freshwater = Eut EP-marine = Eutropl EP-terrestrial = Eutr	nication potentia	l, fraction of	nutrients reachin	g marine end coi			1.08E-04	-
РОСР	kg NMVOC eq.	1.27E-03	1.21E-03	2.28E-05	8.12E-06	0.00E+00	3.12E-05	-
POCP = Formation p	otential of tropo	-spheric ozor	ne					
ADP-minerals & metals	kg Sb eq.	4.44E-06	4.33E-06	9.25E-09	2.53E-08	0.00E+00	8.16E-08	-
ADP-fossil	MJ	5.54E+00	5.27E+00	6.28E-02	6.25E-02	0.00E+00	1.40E-01	-
ADP-minerals & met ADP-fossil = Abiotic				resources				
WDP	m³ e depr.	1.03E-01	9.61E-02	2.18E-04	1.61E-03	0.00E+00	4.73E-03	-
WDP = Water Depriv	ation potential							
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Common base of mandatory indicators

Inventory flows indicator – Resource use indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	of	-
			racturing	button	lation		life	fits
PERE	MJ	8.93E-01	8.63E-01	8.00E-04	1.09E-02	0.00E+00	1.83E-02	-
PERM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-
PERT	MJ	8.93E-01	8.63E-01	8.00E-04	1.09E-02	0.00E+00	1.83E-02	-
PENRE	MJ	5.54E+00	5.27E+00	6.28E-02	6.25E-02	0.00E+00	1.40E-01	-
PENRM	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-
PENRT	MJ	5.54E+00	5.27E+00	6.28E-02	6.25E-02	0.00E+00	1.40E-01	-

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials

PERM = Use of renewable primary energy resources used as raw materials

PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials

PENRM = Use of non-renewable primary energy resources used as raw materials

PENRT = Total Use of non-renewable primary energy re-sources)

Inventory flows indicator – Indicators describing the use of secondary materials, water, and energy re-sources

Indicator	Unit	Unit Total	Manu-	Distri-	Instal-	Use	of	-
			facturing	bution	lation		life	fits
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-
FW	m³	3.39E-03	3.15E-03	7.48E-06	6.14E-05	0.00E+00	1.71E-04	-
SM = Use of seconda RSF = Use of renewal	2	iels						

NRSF = Use of non-renewable secondary fuels

FW = Use of net fresh water

Inventory flows indicator - Waste category indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	of life	Bene - fits
Hazardous waste disposed	kg	6.08E-06	5.73E-06	1.52E-07	8.18E-08	0.00E+00	1.15E-07	-
Non- hazardous waste disposed	kg	1.92E-01	1.60E-01	5.88E-03	2.30E-03	0.00E+00	2.39E-02	-
Radioactive waste disposed	kg	1.35E-05	1.21E-05	4.25E-07	1.30E-07	0.00E+00	8.48E-07	-

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PERT = Total Use of renewable primary energy resources

Common base of mandatory indicators

Inventory flows indicator – Output flow indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use o	of ife	- fits
Components for re- use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00 0.0	0E+00	-
Materials for recycling	kg	3.04E-02	2.77E-03	0.00E+00	8.74E-03	0.00E+00 1.8	9E-02	-
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00 0.0	0E+00	-
Exported energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00 0.0	0E+00	-

Inventory flow indicator – other indicators

Indicator	Unit	Total
Biogenic carbon content of the product	kg of C	0.00E+00
Biogenic carbon content of the associated packaging	kg of C	5.53E-03

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Independent verification of the declaration and data, in c	ompliance with ISO 14025	5: 2006
Internal O	External 🔘	
The PCR review was conducted by a panel of experts chai Julie Orgelet (DDemain)	red by	
PEP are compliant with XP C08-100-1: 2016 or EN 50693:2 The elements of the present PEP cannot be compared wit another program		PASS POBT
Document in compliance with ISO 14025: 2006 "Environm declarations. Type III environmental declarations"	ental labels and	

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Environmental Impact Indicator Glossary

Impact indicators

Indicator	Description	Unit
Global warming potential (GWP) - total	Indicator of potential global warming caused by emissions to air contributing to the greenhouse effect. The total global warming potential (GWP-total) is the sum of three sub-categories of climate change. GWP-total = GWP-fossil + GWP-biogenic + GWP- land use and land use change	kg CO₂ eq.
Ozone depletion (ODP)	Emissions to air that contribute to the destruction of the stratospheric ozone layer	kg CFC-11 eq.
Acidification of soil and water (A)	Acidification of soils and water caused by the release of certain gases to the atmosphere, such as nitrogen oxides and sulphur oxides	H+ eq.
Eutrophication (E)	Indicator of the contribution to eutrophication of water by the enrichment of the aquatic ecosystem with nutritional elements, e.g. industrial or domestic effluents, agriculture, etc. This indicator is divided to three: freshwater, marine and terrestrial.	kg P eq., kg N eq., mole N eq.
Photochemical ozone creation (POCP)	Indicator of emissions of gases that affect the creation of photochemical ozone in the lower atmosphere (smog) because of the rays of the sun.	kg NMVOC eq.
Depletion of abiotic resources – elements (ADPe)	Indicator of the depletion of natural non-fossil resources	kg Sb eq.
Depletion of abiotic resources – fossil fuels (ADPf)	The use of non-renewable fossil resources in an unsustainable way (e.g. from material to waste)	MJ (lower heating value)
Water Deprivation potential (WDP)	Deprivation-weighted water consumption. Assesses the potential of water deprivation, to either humans or ecosystems, building on the assumption that the less water remaining available per area, the more likely another user will be deprived.	m³ e depr.

Resource use indicators

Indicator	Description	Unit
Total use of primary energy	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials) + Total use of renewable primary energy re-sources (primary energy and primary energy resources used as raw materials)	MJ (lower heating value)

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