

128 av. du Maréchal-de-Lattre-de-Tassigny 87045 Limoges Cedex France Tel. +33 (0) 555068787 Fax. + 33 (0) 555068888

Your usual Sales office www.legrand.com

Product Environmental Profile

Undervoltage release DX³





■ LEGRAND'S ENVIRONMENTAL COMMITMENTS

• Incorporate environmental management into our industrial sites

Of all Legrand sites worldwide, over 85% are ISO 14001-certified (sites belonging to the Group for more than five years).

• Offer our customers environmentally friendly solutions

Develop innovative solutions to help our customers design more energy efficient, better managed and more environmentally friendly installations.

• Involve the environment in product design and provide informations in compliance with ISO 14025

Reduce the environmental impact of products over their whole life cycle.

Provide our customers with all relevant information (composition, consumption, end of life, etc.).



■ REFERENCE PRODUCT ■

Function	To permit the remote tripping of its associated device in case of mains voltage drop down or with the help of a remote N/C push button, under a tension of 240 V a.c. and for a period of 20 years, in accordance with the EN 23-105 standard. Time delay adjustable.
Reference Product	Solution of the state of the st
	LG-406282
	Undervoltage release DX³ - 240 V a.c 1 module

The company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in the document are for guidance and cannot be held binding on the company.



■ PRODUCTS CONCERNED

The environmental data is representative of the following products:

LG-406282	
LG-406280	



128 av. du Maréchal-de-Lattre-de-Tassigny 87045 Limoges Cedex France Tel. +33 (0) 555068787 Fax. +33 (0) 555068888

Your usual Sales office www.legrand.com

Product Environmental Profile

Undervoltage release DX3





■ CONSTITUENT MATERIALS

This Reference Product contains no substances prohibited by the regulations applicable at the time of its introduction to the market. It respects the restrictions on use of hazardous substances as defined in the RoHS directive 2011/65/EU and its delegated directive 2015/863/EU.

Total weight of	
Reference Product	105 g (all packaging included)

Plastics as % of weight		Metals as % of weight		Other as % of weight		
Polycarbonate	28,2 %	Steel	10,0 %	Electronic cardboards	5,3 %	
Polyamide	4,3 %	Copper alloys	3,5 %			
POM resin	0,6 %	Aluminum alloys	0,9 %			
Other plastics	1,2 %	Other metals 1,2 %				
		Packaging			·	
Polyethylene	0,4 %			Wood	23,0 %	
				Paper / cardboard	21,4 %	
Total plastics	34,7 %	Total metals	15,6 %	Total other	49,7 %	

Estimated recycled material content: 15 % by mass.



■ MANUFACTURE ■

This Reference Product comes from a site that has received ISO14001 certification.



■ DISTRIBUTION **■**

Products are distributed from logistics centres located with a view to optimize transport efficiency. The Reference Product is therefore transported over an average distance of 780 km by road from our warehouse to the local point of distribution in Europe. Packaging is compliant with European directive 2004/12/EU concerning packaging and packaging waste. At their end of life, its recyclability rate is 96 % (in % of packaging weight).



■ INSTALLATION ■

For the installation of the product, only standard tools are needed.



USE I

Under normal conditions of use, this product requires no servicing, no maintenance or additional products.



128 av. du Maréchal-de-Lattre-de-Tassigny 87045 Limoges Cedex France Tel. +33 (0) 555068787 Fax. +33 (0) 555068888

Your usual Sales office www.legrand.com

Product Environmental Profile

Undervoltage release DX³





■ END OF LIFE I

The product end-of-life factors are taken into account during the design phase. Dismantling and sorting of components or materials is made as easy as possible with a view to recycling or failing that, another form of reuse. This product falls within the scope of the WEEE directive (2012/19/EU). Therefore it must be processed through local WEEE recycling/recovery channels.

• Elements to process specifically:

In accordance with the requirements of this Directive, the following components must be removed and sent to specific channels for processing which comply with the WEEE Directive 2012/19/EU:

- electronic cards more than 10 cm²: 6 g

• Extended producer responsability:

The sale of this product is subject to a contribution to eco-organisations in each country responsible for managing end-of-life products in the field of application of the European Waste Electronic and Electrical Equipment Directive.

• Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 91 %. This value is based on data collected from a technological channel operating on an industrial basis. It does not pre-validate the effective use of this channel for the end of life of this product.

Separated into:

plastic materials (excluding packaging)
metal materials (excluding packaging)
other materials (excluding packaging)
packaging (all types of materials)
: 43 %



■ ENVIRONMENTAL IMPACTS

The evaluation of environmental impacts examines the stages of the Reference Product life cycle: manufacturing, distribution, installation, use and end-of-life. It is representative from products marketed and used in Europe, in compliance with the local current standards.

For each phase, the following modelling elements were taken in account:

Manufacture	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.
Distribution	Transport between the last Group distribution centre and an average delivery point in the sales area.
Installation	The end of life of the packaging.
Use	• Use scenario: operation for 20 years (based on PSR-0005-ed2-2016 03 29 and concerning the associated device) with a consumption of 1 W at 100% of the time. This modelling duration does not constitute a minimum durabilty requirement. • Energy model: Electricity Mix, Europe 27 - 2008.
End of life	The default end of life scenario maximizing the impacts.
Software and database used	EIME V5 and its database «CODDE-2018-11»



128 av. du Maréchal-de-Lattre-de-Tassigny 87045 Limoges Cedex France Tel. +33 (0) 555068787 Fax. +33 (0) 555068888

Your usual Sales office www.legrand.com

Product Environmental Profile

Undervoltage release DX³





■ SELECTION OF ENVIRONMENTAL IMPACTS I

	Total for I	Life cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	•
Global warming	8.64E+01	kgCO ₂ eq.	5.31E-01	< 1%	4.07E-03	< 1%	2.64E-03	< 1%	8.58E+01	99%	5.91E-03	< 1%
Ozone depletion	5.66E-06	kgCFC-11 eq.	6.77E-08	1%	8.25E-12	< 1%	1.33E-11	< 1%	5.59E-06	99%	1.31E-10	< 1%
Acidification of soils and water	3.59E-01	kgSO ₂ eq.	9.50E-04	< 1%	1.83E-05	< 1%	1.24E-05	< 1%	3.58E-01	100%	2.30E-05	< 1%
Water eutrophication	2.32E-02	kg(PO ₄)³- eq.	1.55E-03	7 %	4.21E-06	< 1%	8.83E-06	< 1%	2.16E-02	93%	2.85E-05	< 1%
Photochemical ozone formation	1.98E-02	kgC ₂ H ₄ eq.	1.07E-04	< 1%	1.30E-06	< 1%	8.80E-07	< 1%	1.97E-02	99%	1.78E-06	< 1%
Depletion of abiotic resources - elements	5.14E-05	kgSb eq.	4.40E-05	85%	1.63E-10	< 1%	1.12E-10	< 1%	7.46E-06	15%	3.57E-10	< 1%
Total use of primary energy	1.72E+03	МЛ	9.66E+00	< 1%	5.76E-02	< 1%	3.67E-02	< 1%	1.71E+03	99%	6.62E-02	< 1%
Net use of fresh water	3.11E+02	m³	7.09E-02	< 1%	3.65E-07	< 1%	5.90E-07	< 1%	3.11E+02	100%	4.55E-06	< 1%
Depletion of abiotic resources - fossil fuels	9.80E+02	МЛ	5.48E+00	< 1%	5.72E-02	< 1%	3.59E-02	< 1%	9.74E+02	99%	6.02E-02	< 1%
Water pollution	3.68E+03	m³	1.39E+02	4%	6.70E-01	< 1%	4.18E-01	< 1%	3.54E+03	96%	6.99E-01	< 1%
Air pollution	3.76E+03	m³	6.82E+01	2%	1.67E-01	< 1%	2.31E-01	< 1%	3.69E+03	98%	6.36E-01	< 1%

The values of the 27 impacts defined in the PCR-ed3-EN-2015 04 02 are available in the digital database of pep-ecopassport.org website. Extrapolation rule for products other than the reference one: the environmental impacts of the articles of the homogeneous family, for all of the life cycle phases, are obtained by multiplying the environmental impacts of the Reference Product by the following coefficients:

Codes	Total (without ADPe indicator)	Total (only ADPe indicator)	Manufacturing	Distribution	Installation	Use	End of Life
LG-406280	0,2	1,0	1,0	1,0	1,0	0,2	1,0
LG-406282	1,0	1,0	1,0	1,0	1,0	1,0	1,0

Registration N°: LGRP-01267-V01.01-EN	Drafting rules: PEP-PCR-ed3-EN-2015 04	. 02	
Verifier accreditation N°: VH02	Information and reference documents : www.pep-ecopas:		
Date of issue: 10-2020	Validity period: 5 years		
Independent verification of the declaration and data, in co Internal ☑ External ☐	mpliance with ISO 14025:2010		
The PCR review was conducted by a panel of experts chair	PEP		
PEP are compliant with XP C08-100-1 : 2016 The elements of the present PEP cannot be compared wit	PASS		
Document in compliance with ISO 14025 : 2010: «Environmedeclarations»	PORT		
Environmental data in alignment with EN 15804 : 2012 + A	A1 : 2013		