



Product Environmental Profile

Fireman's Emergency Switch for illuminated sign switch-off





■ 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	Turn off a part of an installation by separating the installation of all electrical energy, for safety reasons with a rated voltage 250V, and rated current 16A ensuring isolation characterised by a rated voltage 253V, and with applicable specific specifications IP65 IK08, according to the appropriate use scenario, and during the reference service life of the product of 20 years.
Reference Product	NEON
	Cat.No LG-038050
	Cut-off box for illuminated firefighter sign, bipolar 16A 250V with indicator LED

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:

Catalogue Numbers	
LG-038051 -	
LG-038052 -	
LG-038053	





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■ 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 amended by delegated directive (EU) 2015/863, and its amendment 2017/2102/EU.

Total weight of	
Reference Product	0.522 kg (all packaging included)

Product alone weight 0.412 kg									
Plastics as % of weight		Metals as % of weight		Other as % of weight					
PC	48.6 %		6.9 %	PWB < 10cm ²	2.8 %				
PA	10.6 %	Copper and copper alloys	2.4 %	Electrical wire	0.3 %				
Others plastics	6.6 %	Silver alloys	0.2 %						
HIPS	0.4 %								
POM	0.2 %								
Various plastics	<0.1 %								

Packaging (alone) : 0.110 kg									
PE <0.1 % Cardboard									
				Wood	8.0 %				
				Paper	1.2 %				
Total plastics : 0.346 kg	66.4 %	Total metals : 0.050 kg	9.5 %	Total others : 0.126 kg	24.1 %				

At the date of edition of this document, the content of recycled material(s) is :

- Product alone (excluding packaging): 0% by mass
- Packaging only: 51% by mass



MANUFACTURE

This Reference Product comes from sites that have 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 378 by truck from our warehouse to the local point of distribution into the market in France.

Packaging is compliant with European directive 2004/12/EU concerning packaging and packaging waste and french decree 98-638.



■ INSTALLATION ■

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



USE

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





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■ END OF LIFE

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.

Extended producer responsability:

In France, the sale of products covered by the field of application of the European Directive on Waste Electronic and Electrical Equipment (WEEE) is subject to a contribution to a certified eco-organisation.



■ 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 of products marketed and used in France in an electrical installation in compliance with NF C 15100 and associated product standards.

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

	Manufacture A1-A3	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.
	Distribution A4	Transport between the last Group distribution centre and an average delivery point in the sales area.
System Limit	Installation A5	The end of life of the packaging.
Syster	Use B1-B7	 Product category: Disconnectors. Use scenario: for a 20-year working life, continuous operation at 100% of rated load, 1W all year round. This modelling period does not constitute a minimum durability requirement. Energy model: Electricity Mix_Low voltage_2018_France_FR.
	End of life C1-C4	Choice of end-of-life by default model for PCR-ed4-EN-2021 09 06
D Mc	odule	Module D is calculated according to PCR-ed4-EN-2021 09 06 based on the materials recycled and the modelled end-of-life scenario. It expresses the net benefits and burdens beyond the boundaries of the system, and are not to be included in the life cycle totals.
	ware and data- used	The indicators set used is « Indicators for PEF EF 3.0 (compliance: PEP ed.4, EN15804+A2) v2.0 » EIME V6 & its database CODDE-2023-02

Unless otherwise indicated the modelling energetic mix are those integrated in the data modules used from the aformentioned database.



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■ ENVIRONMENTAL IMPACTS

	Total I	ife Cycle	Manufacturing	Distribution	Installation		End of Life		
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4
Climate change - total	1.68E+01	kg CO2 eq.	3.76E+00	9.92E-03	9.78E-03	1.17E+01	0*	1.17E+01	1.26E+00
Climate change - fossil fuels	1.66E+01	kg CO2 eq.	3.69E+00	9.92E-03	9.78E-03	1.17E+01	0*	1.17E+01	1.25E+00
Climate change - biogenics	1.15E-01	kg CO2 eq.	7.49E-02	0*	0*	3.02E-02	0*	3.02E-02	1.03E-02
Climate change - land use and land use transformation	3.86E-04	kg CO2 eq.	3.86E-04	0*	0*	0*	0*	0*	0*
Ozone depletion	7.64E-07	kg.equivalent. CFC-11	5.87E-07	0*	1.75E-10	1.72E-07	0*	1.72E-07	4.62E-09
Acidification (AP)	8.39E-02	mole of H+ equiv	1.51E-02	6.28E-05	8.17E-05	6.78E-02	0*	6.78E-02	8.15E-04
Freshwater eutrophication	6.54E-04	kg P eq.	4.85E-05	0*	0*	5.57E-04	0*	5.57E-04	4.86E-05
Marine aquatic eutrophication	1.21E-02	kg of N equiv	2.52E-03	2.94E-05	3.84E-05	9.33E-03	0*	9.33E-03	1.61E-04
Terrestrial eutrophication	1.62E-01	mole of N equiv	2.49E-02	3.23E-04	4.01E-04	1.34E-01	0*	1.34E-01	2.13E-03
Photochemical ozone formation	3.66E-02	kg of NMVOC equiv	8.29E-03	8.14E-05	9.77E-05	2.76E-02	0*	2.76E-02	5.38E-04
Depletion of abiotic resources - elements	7.20E-04	kg.equivalent. Sb	7.12E-04	0*	0*	5.54E-06	0*	5.54E-06	1.54E-06
Depletion of abiotic resources - fossil fuels	2.33E+03	МЈ	7.09E+01	0*	0*	2.25E+03	0*	2.25E+03	7.04E+00
Water requirement	2.60E+00	m3 of equiv. deprivation worldwide	1.57E+00	0*	1.02E-02	8.49E-01	0*	8.49E-01	1.72E-01
Emission of fine particles	2.78E-06	incidence of diseases	1.44E-07	5.10E-10	4.32E-10	2.63E-06	0*	2.63E-06	4.70E-09

^{*} represents less than 0.01% of the total life cycle of the reference flow

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

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Module D

-2.43E-02
-3.36E-02
9.36E-03
0.00E+00
-2.99E-08
-8.61E-04
2.13E-06
9.09E-05
6.78E-04
7.35E-05
8.34E-04
-5.58E-01
-8.51E-02
-3.40E-08

⁽¹⁾ For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table



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	Total Life Cycle		Cvcle Manufacturing Distribution		Installation		End of Life		
		,	A1-A3	A4	A5	Total B1-B7	B2	В6	C1-C4
Ionizing radiation. human health	3.18E+02	kBq of U235 equiv.	1.45E+01	0*	0*	3.04E+02	0*	3.04E+02	0*
Ecotoxicity (fresh water)	4.57E+02	CTUe	3.45E+02	0*	6.60E-01	8.28E+01	0*	8.28E+01	2.91E+01
Human toxicity. carcinogenic effects	3.36E-07	CTUh	3.33E-07	0*	8.73E-10	1.96E-09	0*	1.96E-09	7.59E-10
Human toxicity. non-carcinogenic effects	2.11E-07	CTUh	1.20E-07	0*	3.05E-10	8.46E-08	0*	8.46E-08	6.32E-09
Impacts related to land use/soil quality	1.69E+00	-	1.18E+00	0*	0*	3.74E-01	0*	3.74E-01	1.43E-01
Use of renewable primary energy. excluding renewable primary energy resources used as raw materials	2.11E+02	W1	2.58E+00	0*	0*	2.08E+02	0*	2.08E+02	4.33E-02
Use of renewable primary energy resources used as raw materials	1.40E+00	МЈ	1.40E+00	0*	0*	0*	0*	0*	0*
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	2.12E+02	МЈ	3.98E+00	0*	0*	2.08E+02	0*	2.08E+02	4.33E-02
Use of non-renewable primary energy. excluding non-renewable primary energy resources used as raw materials	2.32E+03	МЈ	5.89E+01	0*	0*	2.25E+03	0*	2.25E+03	7.04E+00
Use of non-renewable primary energy resources used as raw materials	1.20E+01	MJ	1.20E+01	0*	0*	0*	0*	0*	0*
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	2.33E+03	MJ	7.09E+01	0*	0*	2.25E+03	0*	2.25E+03	7.04E+00

Module D -2.07E+00 -1.24E+00 -5.16E-08 -1.05E-08 3.60E-04 -1.27E-01 1.01E+00 8.83E-01 -5.38E-01 -2.06E-02 -5.58E-01

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

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	Total Life Cycle		Manufacturing	Distribution	Installation		End of Life		
			A1-A3	A4	A5	Total B1-B7	B2	В6	C1-C4
Use of secondary materials	5.78E-02	kg	5.78E-02	0*	0*	0*	0*	0*	0*
Use of renewable secondary fuels	0.00E+00	МЈ	0*	0*	0*	0*	0*	0*	0*
Use of non-renewable secondary fuels	0.00E+00	МЈ	0*	0*	0*	0*	0*	0*	0*
Net use of fresh water	5.69E-02	m3	3.29E-02	0*	2.37E-04	1.98E-02	0*	1.98E-02	4.01E-03
Hazardous waste disposed of	1.24E+01	kg	1.18E+01	0*	0*	1.74E-01	0*	1.74E-01	3.98E-01
Non-hazardous waste disposed of	3.83E+00	kg	2.20E+00	0*	1.10E-01	1.13E+00	0*	1.13E+00	3.90E-01
Radioactive waste disposed of	4.31E-03	kg	3.82E-03	0*	0*	4.73E-04	0*	4.73E-04	1.58E-05
Components for re-use	0.00E+00	kg	0*	0*	0*	0*	0*	0*	0*
Materials for recycling	4.85E-02	kg	1.17E-02	0*	0*	0*	0*	0*	3.68E-02
Materials for energy recovery	0.00E+00	kg	0*	0*	0*	0*	0*	0*	0*
Exported energy	0.00E+00	MJ by energy vector	0*	0*	0*	0*	0*	0*	0*
Total use of primary energy during the life cycle	2.54E+03	MJ	7.49E+01	0*	0*	2.46E+03	0*	2.46E+03	7.09E+00

Module D
0.00E+00
0.00E+00
0.00E+00
-1.98E-03
-3.13E-01
7.69E-03
9.66E-06
0.00E+00
0.00E+00
0.00E+00
0.00E+00
3.24E-01

Biogenic carbon content of the product	0.00E+00	kg of C.	0*	0*	0*	0*	0*	0*	0*
Biogenic carbon content of the associated packaging	3.60E-02	kg of C.	3.60E-02	0*	0*	0*	0*	0*	0*

0.00E+00

For biogenic carbon storage, the methodology use is 0/0

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

The values of the indicators defined in the PCR-ed4-EN-2021 09 06 are available in the digital database of pep-ecopassport.org website.

For products covered by the PEP other than the Reference product, the environmental impacts of each phase of the lifecycle are calculated with:

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To find out the environmental impact values of products other than the Reference Product. The coefficients below are to be multiplied by the values of the reference product.

Associated references	Coefficient of extrapolation of environnemental indicators						
		Total life Cycle	Manufacturing	Distribution	Installation	Use	End of life
LG-038050	Cut-off box for illuminated firefighter sign, bipolar 16A 250V with indicator LED	1.0	1.0	1.0	1.0	1.0	1.0
LG-038051	Cut-off box for illuminated firefighter sign, bipolar 16A 250V without indicator LED	0.2	1.0	1.0	1.0	0.0	1.0
LG-038052	Cut-off box for illuminated firefighter sign, tetrapolar 16A 400V with indicator LED	1.0	1.2	1.2	1.0	1.0	1.2
LG-038053	Cut-off box for illuminated firefighter sign, tetrapolar 16A 400V without indicator LED	0.2	1.1	1.2	1.0	0.0	1.2

Registration number: LGRP-01769-V01.01-EN	Drafting rules: «PEP-PCR-ed4-EN-2021 09 06» Supplemented by «PSR-0005-ed3-2023 06 06»
Verifier accreditation N°: VH43	Information and reference documents: www.pep-ecopassport.org
Date of issue : 01-2024	Validity period: 5 years
Independent verification of the declaration and data, in	compliance with ISO 14025 : 2006
Internal ☐ External ⊠	PEP
The PCR review was conducted by a panel of experts chaired by	
PEP are compliant with XP C08-100-1:2016 or EN 50693:2019 The elements of the present PEP cannot be compared with ele	PASS
Document in compliance with ISO 14025 : 2006: «Environment Type III environmental declarations»	

Environmental data in alignment with EN 15804: 2012 + A2 : 2019