



Product Environmental Profile

Plexo[™] complete surface-mounting IP 55 Movement detectors





■ 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	Independently manage the opening and closing of a low voltage electrical circuit to 250V at a maximum current of 8.5A, by infrared detection of a body through 360° and the brightness, according to IEC 60669-2-1 for commercial or similar purposes. This function is provided for 10 years.
Reference Product	
	Cat.No 0 697 40
	MOVEMENT DETECTOR PLEXO IP 55 - DETECTION ANGLE 360° - SURFACE MOUNTING - GREY.

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

• 0 697 80 - 0 488 98





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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	275 g (all packaging included)

Plastics as % of weight		Metals as % of weight		Other as % of weight		
PC	43.1%	Steel	1.4%	Electronics Cards	14.2%	
ABS	1.4%	Copper alloys	0.6%	Cables / Electric wires	0.2%	
PE	0.8%	Other Metals	0.3%			
		Al	<0,1%			
Various plastics	0.7%			Various electronic components	0.1%	
		Packaging as % of weight				
PE	1.0%			Paper	24.5%	
PP	0.3%			Wood	11.4%	
Total plastics	47.3%	Total metals	2.3%	Total others	50.4 %	

Estimated recycled material content: 21 % 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 780km by road from our warehouse to the local point of distribution into the market 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 95 % (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.





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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.

• 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:

- waste list WEEE
- hazardous waste list*

(*) Hazardous waste as defined by European Commission decision 2000/532/EU.

• 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.

• Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 89 %. 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)
: 35 %



■ 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:

Unless otherwise s	pecified, the energy models are those integrated in the modules used from the EIME database				
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	 Product category: active product. Use scenario: for a 10 years working life, in continuous operation at 100% rated load, 0.6W 80% of the time and 0.7W the rest 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 & database CODDE-2018-11				



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■ SELECTION OF ENVIRONMENTAL IMPACTS I

	Total for L	ife cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	<u>.</u>
Global warming	2.91E+01	kgCO ₂ eq.	2.50E+00	9%	1.07E-02	< 1%	6.15E-03	< 1%	2.66E+01	91%	2.04E-02	< 1%
Ozone depletion	2.08E-06	kgCFC-11 eq.	3.43E-07	17%	2.16E-11	< 1%	4.24E-11	< 1%	1.73E-06	83%	5.12E-10	< 1%
Acidification of soils and water	1.16E-01	kgSO ₂ eq.	5.11E-03	4%	4.80E-05	< 1%	2.91E-05	< 1%	1.11E-01	95%	7.77E-05	< 1%
Water eutrophication	1.38E-02	kg(PO ₄)³- eq.	6.96E-03	50%	1.10E-05	< 1%	2.55E-05	< 1%	6.70E-03	49%	8.95E-05	< 1%
Photochemical ozone formation	6.65E-03	kgC₂H₄ eq.	5.43E-04	8%	3.41E-06	< 1%	2.07E-06	< 1%	6.10E-03	92%	6.06E-06	< 1%
Depletion of abiotic resources - elements	5.57E-04	kgSb eq.	5.54E-04	100%	4.27E-10	< 1%	2.71E-10	< 1%	2.31E-06	< 1%	1.30E-09	< 1%
Total use of primary energy	5.73E+02	МЛ	4.15E+01	7%	1.51E-01	< 1%	8.40E-02	< 1%	5.31E+02	93%	2.23E-01	< 1%
Net use of fresh water	9.68E+01	m³	3.09E-01	< 1%	9.56E-07	< 1%	1.81E-06	< 1%	9.65E+01	100%	1.77E-05	< 1%
Depletion of abiotic resources - fossil fuels	3.30E+02	МЈ	2.77E+01	8%	1.50E-01	< 1%	8.17E-02	< 1%	3.02E+02	91%	1.99E-01	< 1%
Water pollution	1.66E+03	m³	5.52E+02	33%	1.76E+00	< 1%	9.50E-01	< 1%	1.10E+03	66%	2.31E+00	< 1%
Air pollution	1.37E+03	m³	2.16E+02	16%	4.38E-01	< 1%	6.42E-01	< 1%	1.15E+03	84%	2.39E+00	< 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.

For all products concerned (see § «products concerned»), take these impacts values.

The reference product : 0 697 40							
Movement dete	ctor Plexo IP5	55 - detection	angle 360° - si	urface mounting	g - grey		
Cor	afficient of ext	translation of	environmental	indicators			
	enicient of ext	irapolation of	I	Indicators			
Associed References	Manufa	acturing	Distribution	Installation	Use	End of life	
	GWP						
	ODP			1,0	1,0	1,0	
	Α						
0 697 80	EP		1,0				
Movement detector Plexo IP55 - detection angle 360° - surface	POCP	1,0					
mounting - white	ADPe						
I I I I I I I I I I I I I I I I I I I	PE						
	FW						
	ADPf WP						
	AP						
	GWP			1,2		——	
	ODP			2,9			
	A	- - -		1,1			
0 488 98	EP			1,2			
Movement detector Plexo IP55 -	POCP			1,1			
detection angle 360° - surface	ADPe	1,0	1,0	1,5	1,0	1,0	
mounting - white	PE			1,1		i	
	FW			2,4			
	ADPf	1		1,0			
	WP			1,0			
	AP			1,3			

Contact Legrand if you have any questions regarding the calculation of coefficients for impacts others than those presented in this PEP



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Drafting rules: PEP-PCR-ed3-EN-2015 04 02 Supplemented by PSR-0005-ed2-2016 03 29				
Information and reference documents: www.pep-ecopassport.org				
Validity period: 5 years				
th ISO 14025 : 2010 De Osset (SOLINNEN)				
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and declarations.				