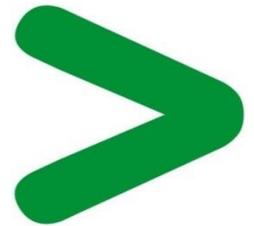
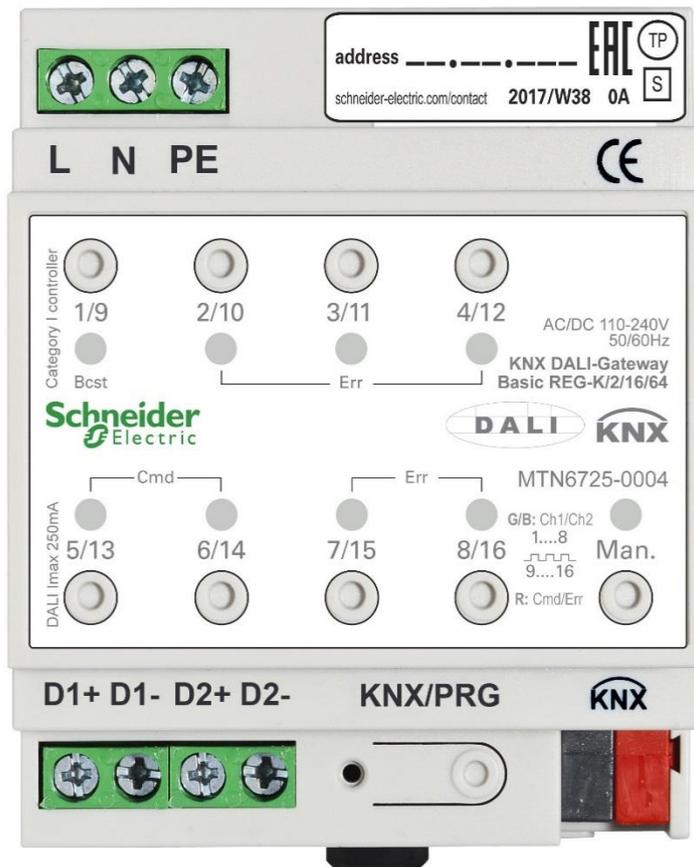


# Product Environmental Profile

## KNX DALI - GATEWAY BASIC REG-K/2/16/64 (2 DALI CHANNELS)





## General information

### Representative product

KNX DALI - GATEWAY BASIC REG-K/2/16/64 (2 DALI CHANNELS) - MTN6725-0004

### Description of the product

The KNX DALI Gateway Basic REG-K/2/16/64 connects the KNX bus to the DALI bus. Lights with DALI electronic ballasts can therefore be integrated into a complete KNX system in the form of a subsystem and operated using the wide range of KNX devices available. The device converts switching and dimming commands of the connected KNX system into corresponding DALI telegrams or status information from the DALI bus into KNX telegrams.

### Functional unit

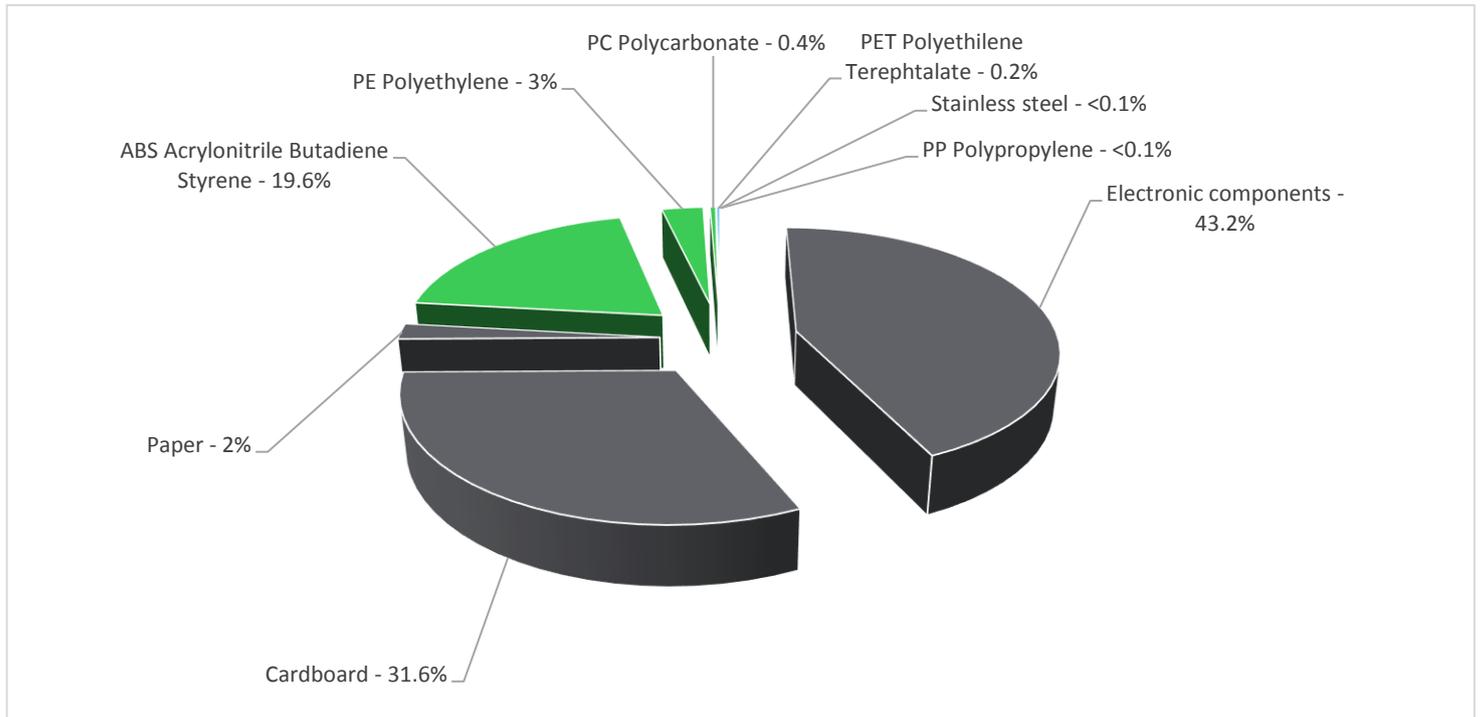
To connects the KNX bus to 2 DALI (Digital Addressable Lighting Interface) outputs during 10 years in accordance with relevant standards. The gateway is a master device on the DALI bus to control lamps. It has an integrated DALI power supply for the ECGs (Electronic Control Gear, also called ballast). For each DALI output, it supports the switching and dimming of up to 64 ECGs.



## Constituent materials

### Reference product mass

226 g including the product, its packaging and additional elements and accessories



Plastics	23,2%
Metals	< 0,1%
Others	76,8%



## Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) as mentioned in the Directive

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website <http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page>

## Additional environmental information

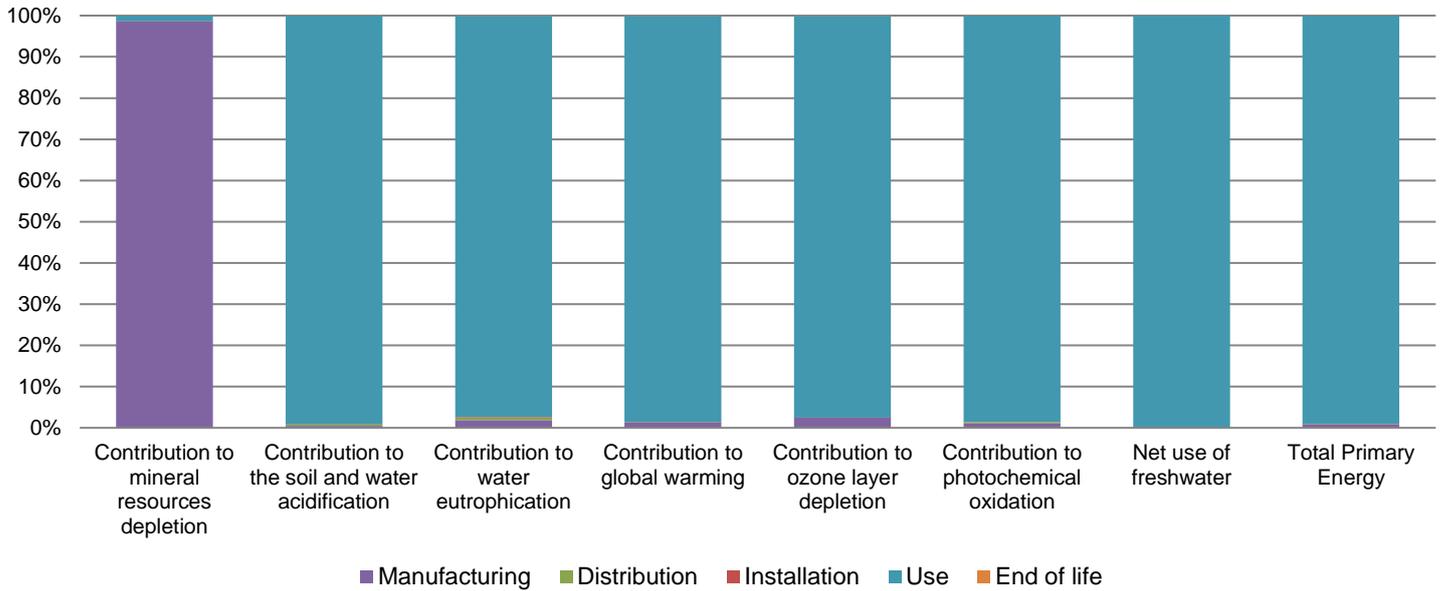
The KNX DALI - GATEWAY BASIC REG-K/2/16/64 (2 DALI CHANNELS) presents the following relevant environmental aspects

<b>Design</b>	These devices are rather powerful and enable the control of up to 64 or 128 lamps. A new function allows to switch off the power of lamps if they are not used. The device delivers a signal per DALI group to benefit from this opportunity.
<b>Manufacturing</b>	Manufactured at a production site complying with the regulations
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 76,7 g, consisting of cardboard (96%), paper (4%) Product distribution optimised by setting up local distribution centres
<b>Installation</b>	Ref MTN6725-0004 does not require any installation operations.
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials This product contains electronic cards (97g), cables (1,9) that should be separated from the stream of waste so as to optimize end-of-life treatment. The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website <a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page">http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</a> Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME). Recyclability potential: <b>39%</b>

## Environmental impacts

<b>Reference life time</b>	10 years			
<b>Installation elements</b>	Packaging is being disposed during installation process.			
<b>Use scenario</b>	This product is permanently in operation and powered 100% of the time. Power consumption is depending only on the number of connected ballasts. For a typical installation it is about 9 W for 10 years. Typical installation is considered 55 ballasts per DALI line connected and no short circuit on the DALI lines.			
<b>Geographical representativeness</b>	Europe, Asia, South America			
<b>Technological representativeness</b>	The means of material production, processing and transport modeled are representative of the technologies used in production.			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	Energy model used: Germany	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		KNX DALI - GATEWAY BASIC REG-K/2/16/64 (2 DALI CHANNELS) - MTN6725-0004					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2,51E-03	2,47E-03	0*	0*	3,28E-05	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	1,60E+00	7,76E-03	5,73E-03	0*	1,59E+00	0*
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	1,02E-01	1,97E-03	5,65E-04	1,96E-04	9,97E-02	4,66E-05
Contribution to global warming	kg CO <sub>2</sub> eq	4,00E+02	5,35E+00	2,02E-01	1,03E-01	3,94E+02	1,52E-01
Contribution to ozone layer depletion	kg CFC11 eq	2,54E-05	6,33E-07	0*	0*	2,47E-05	5,28E-09
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	9,00E-02	9,56E-04	2,84E-04	2,47E-05	8,87E-02	0*
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m <sup>3</sup>	1,37E+03	0*	0*	0*	1,37E+03	0*
Total Primary Energy	MJ	7,87E+03	7,11E+01	2,59E+00	0*	7,79E+03	0*



Optional indicators		KNX DALI - GATEWAY BASIC REG-K/2/16/64 (2 DALI CHANNELS) - MTN6725-0004					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	4,62E+03	6,53E+01	2,57E+00	0*	4,55E+03	0*
Contribution to air pollution	m³	1,85E+04	5,34E+02	2,77E+01	0*	1,79E+04	2,64E+00
Contribution to water pollution	m³	1,70E+04	5,39E+02	3,01E+01	5,38E+00	1,64E+04	8,18E+00
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	7,03E-02	7,03E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	9,74E+02	3,32E+00	0*	0*	9,71E+02	0*
Total use of non-renewable primary energy resources	MJ	6,89E+03	6,78E+01	2,58E+00	0*	6,82E+03	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	9,74E+02	3,23E+00	0*	0*	9,71E+02	0*
Use of renewable primary energy resources used as raw material	MJ	9,30E-02	9,30E-02	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6,89E+03	6,44E+01	2,58E+00	0*	6,82E+03	0*
Use of non renewable primary energy resources used as raw material	MJ	3,35E+00	3,35E+00	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0,00E+00	0*	0*	0*	0*	0*
Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	5,61E+00	4,54E+00	0*	0*	7,30E-01	3,42E-01
Non hazardous waste disposed	kg	1,41E+03	1,53E+00	0*	0*	1,41E+03	0*
Radioactive waste disposed	kg	9,39E-01	7,75E-04	0*	0*	9,38E-01	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	7,18E-02	1,31E-02	0*	0*	0*	5,87E-02
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	4,18E-02	0*	0*	0*	0*	4,18E-02
Exported Energy	MJ	2,66E-03	2,26E-05	0*	2,64E-03	0*	0*

\* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version EIME v5.7.0.3, database version 2016-11 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

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.

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Verifier accreditation N°	VH25	Supplemented by	PSR-0005-ed2-EN-2016 03 29
Date of issue	09/2018	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010			
Internal	External	X	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)			
PEP are compliant with XP C08-100-1 :2014			
The elements of the present PEP cannot be compared with elements from another program.			
Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »			
			

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