Product Environmental Profile

LON I/O-Module DR-N 3DIM 1-10V









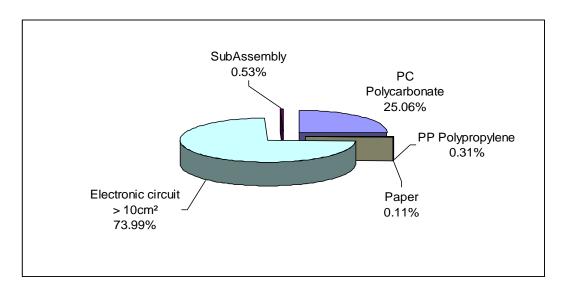
General information

Representative product	LON I/O-Module DR-N 3DIM 1-10V -MTN881001
Description of the product	the LON DIN-rail DIMMERS MTN881001control of devices with 1-10 V interface (controllable electronic ballasts, electronic transformers etc). 3 analogue outputs (1-10 V) for dimming and 3 relay outputs (NO contact, 16A) for switsching. Current load (analogue output): max. 100mA. Power down detection. Switch for manual control of the relay contact. Status signaling via manual switch. Screw-type terminals. DIN-rail mounting according to EN50022. Width of device: approx. 72mm (4 pitch). Software application for dimming the light including timers, prioritised control and configurable reaction to power-up/bus reset. Furthermore, the application provides constant light and scene control according to LonMark profile [Lamp Actuator (3040)], [Constant Light Controller (3050)] and [Scene Controller (3251)].
Functional unit	Switch on and off during 20 years electrical power supply of a downstream installation with an electrical control. The functional unit is characterized by a type 2 x 3 channel, a control circuit voltage Uc= 24v, a power circuit voltage Up= 24v and a maximum allowed intensity by the power circuit Ip= 6A.

Constituent materials

Reference product mass

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



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

(19) Additional environmental information

	The LON I/O-Module DR-N 3DIM 1-10	V presents the following relevent environmental aspects					
Design	Indicate all the eco-design improvements brought to the product at the design phase compared to previous offer range						
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified						
	Weight and volume of the packaging of	ptimized, based on the European Union's packaging directive					
Distribution	Packaging weight is 0 g, consisting of cardboard (100%), 90g						
	Product distribution optimised by setting	g up local distribution centres					
Installation	Ref MTN881001 does not require any installation operations.						
Use	The product does not require special maintenance operations.						
	End of life optimized to decrease the a	mount of waste and allow recovery of the product components and materials					
	This product contains Electronic card (of-life treatment.	194g) that should be separated from the stream of waste so as to optimize end-					
End of life	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						
	http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page						
	Recyclability potential: 21%	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).					

Environmental impacts

Reference life time	10 years
Product category	Active products
Installation elements	No special components needed
Use scenario	Consumed power is 2 W 100 % of the time in Active mode, W 0 % of the time in Standby mode, W 0 % of the time in Sleep mode and W 0 % of the time in Off mode.

Geographical representativeness	EUROPE						
Technological representativeness	the LON DIN-rail DIMMERS Miballasts, electronic transformers analogue outputs (1-10 V) for Current load (analogue output) Power down detection. Switch for manual control of the Status signaling via manual swiscrew-type terminals. DIN-rail mounting according to Width of device: approx. 72mn Software application for dimmipower-up/bus reset. Furthermore, the application programming according to the state of	s etc). r dimming and 3 relay outputs p: max. 100mA. e relay contact. vitch. p EN50022. n (4 pitch). ng the light including timers, provides constant light and see	orioritised control and conf	tsching. igurable reaction to onMark profile			
	Manufacturing	Installation	Use	End of life			
Energy model used	Energy model used: GERMANY	Electricity mix; AC; consumption mix, at consumer; 220V - 230V; RER	Electricity mix; AC; consumption mix, at consumer; 220V - 230V; RER	Electricity mix; AC; consumption mix, at consumer; 220V - 230V: RER			

Compulsory indicators	LON I/O-Module DR-N 3DIM 1-10V - MTN881001						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1,70E-13	1,68E-13	0*	0*	1,50E-15	0*
Contribution to the soil and water acidification	kg SO ₂ eq	0,00E+00	0*	0*	0*	0*	0*
Contribution to water eutrophication	kg PO ₄ 3- eq	1,23E-02	1,50E-03	2,41E-05	0*	1,08E-02	0*
Contribution to global warming	kg CO ₂ eq	7,80E+01	9,44E+00	1,69E-01	0*	6,84E+01	0*
Contribution to ozone layer depletion	kg CFC11 eq	8,15E-06	2,18E-06	8,20E-08	0*	5,88E-06	0*
Contribution to photochemical oxidation	kg C₂H₄ eq	2,71E-02	3,28E-03	1,11E-04	0*	2,37E-02	0*
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	0,00E+00	0*	0*	0*	0*	0*
Total Primary Energy	MJ	0,00E+00	0*	0*	0*	0*	0*
mineral the soil and water wa		ribution to (Contribution to hotochemical oxidation	Net use of freshwater		

Optional indicators		LON I/O-Module DR-N 3DIM 1-10V - MTN881001					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1,50E+03	1,57E+02	3,75E+00	0*	1,34E+03	0*
Contribution to air pollution	m³	0,00E+00	0*	0*	0*	0*	0*
Contribution to water pollution	m³	2,87E-01	7,94E-02	1,04E-03	0*	2,07E-01	0*
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	0,00E+00	0*	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	0,00E+00	0*	0*	0*	0*	0*
Total use of non-renewable primary energy resources	MJ	0,00E+00	0*	0*	0*	0*	0*
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	0,00E+00	0*	0*	0*	0*	0*
Use of renewable primary energy resources used as raw material	MJ	0,00E+00	0*	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	0,00E+00	0*	0*	0*	0*	0*
Use of non renewable primary energy resources used as raw material	MJ	0,00E+00	0*	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	1,22E+00	1,30E-01	1,37E-04	0*	1,09E+00	0*
Non hazardous waste disposed	kg	0,00E+00	0*	0*	0*	0*	0*
Radioactive waste disposed	kg	0,00E+00	0*	0*	0*	0*	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	0,00E+00	0*	0*	0*	0*	0*
Components for reuse	kg	0,00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	0,00E+00	0*	0*	0*	0*	0*
Exported Energy	MJ	0,00E+00	0*	0*	0*	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.5, database version 2015-04.

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.

Registration N°		ENVPEP090328EN	Drafting rules	PCR-ed3-EN-2015 04 02				
Date of issue		12/2016	Supplemented by	PSR-0005-ed1-2012 12 11				
Validity period		5 years	Information and reference	www.pep-ecopassport.org				
Independent verific	Independent verification of the declaration and data, in compliance with ISO 14025 : 2010							
Internal X External								
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								

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Published by Schneider Electric

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12/2016