

I/O System IP20 U-Remote Potential Distribution Modules

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General data

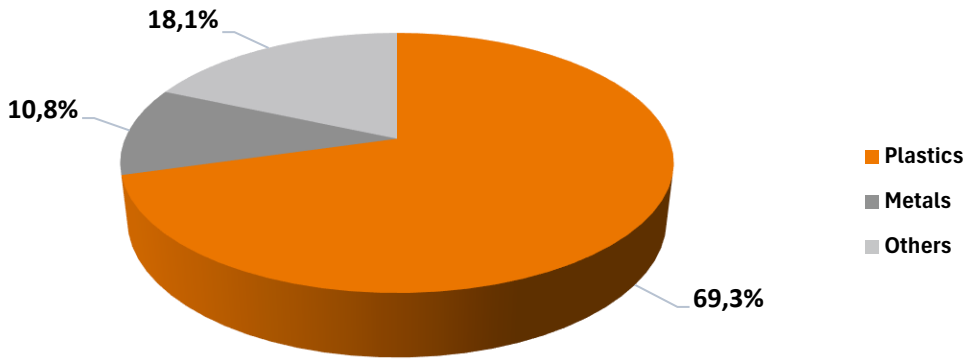
Reference product	1334780000 UR20-16AUX-O
Description of the product	The modules perform the function of distributing supply voltages and providing external power to the system. They are not used for signal processing or communication.
Functional unit	Potential distribution modules distribute supply voltages and provide external power supply for 55,34% within 10 years.

Other products covered

1334770000	1334790000	1334800000	1334810000	1315770000
2919660000				

Constituent Materials

The total weight of the reference product is 97 g (including packaging material). The constituent materials are distributed as follows:



Categorisation according to the material classes of IEC 62474:

Plastics			Metals			Other		
M-258	Polyamide (PA)	46,1 %	M-121	Copper and its alloys	8,9 %	M-341	Paper	18,1 %
M-204	Polycarbonate (PC)	11,3 %	M-119	Other ferrous alloys, non-stainless steels	1 %		Miscellaneous	1,9 %
M-208	Polyamide (PA)	6,9 %	M-100	Stainless steel	0,9 %			
M-261	Polybutylene terephthalate (PBT)	4,9 %						
Plastics in total		69,2 %	Metals in total		10,8 %	Others in total		20,0 %

The products are in compliance with RoHS (EU Directive 2011/65/EU).

According to the REACH Regulation 1907/2006, the ECHA publishes on its website which substances are to be classified as so-called substances of very high concern (SVHC). As soon as an article contains SVHC above the respective threshold values for the declaration obligation according to Article 33, the affected articles and the SVHC they contain are published in the online product catalogue at each product.

The online product catalogue site of the reference product can be accessed via the link:

<https://eshop.weidmueller.com/p/1334780000>

Additional Environmental Information

Manufacture	<p>This stage includes the manufacturing of the product and its packaging as well as the transport to the manufacturer's last logistics platform located in Hürselbach-Hainich (Germany). The final assembly site is located in Germany and has an ISO 14001 and ISO 50.001 certified environmental management system. Transport packaging, used in addition to product packaging when required for delivery, is excluded from the system boundaries.</p>
Distribution	<p>The shipment is made from the distribution centre to the customer by truck. The transport route to the customer was assumed to be 3500 km by lorry.</p>
Installation	<p>Only the disposal of the packaging is considered in this phase, as the installation is carried out manually with non-electrical tools.</p>
Use	<p>No maintenance or utilities are required during use.</p>
End of Life	<p>The end-of-life stage is modelled based on the data from Eurostat. The transport route to the disposal company was assumed to be 1000 km by lorry.</p>

Environmental Impacts

Reference Service Lifetime	10 years			
Product category	Electrical switchgear and control gear solutions			
Installation elements	No special installation elements required.			
Use scenario	<p>With the exception of the modules 1334790000 (FE) and 1315770000 (ES), the product is operated over the reference period of 10 years with a power loss of 0,032W at 55,34% in active mode and 44,66% in off mode. Functional earth modules are considered over 3sec use time with a power loss of 0,4W at 100,00% load rate in the use phase. Empty slot modules are passive modules without fieldbus communication. Therefore, they are not considered during use phase.</p>			
Geographical representativeness	Europe			
Software	Sphera LCA for Experts, v10.9.1.10			
Database	Sphera MLC Databases 2025.1			
Energy model	Manufacture*	Installation	Use	End of Life
	Germany	-	Europe	Europe

*Energy model of the final assembly site.

The following tables represent the impact values of the reference product according to DIN EN 15804:2022-03 except for the environmental indicators of output flows and information on the biogenic carbon content of the product and the associated packaging.

Environmental impact indicators

Indicator	Unit	Total*	Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End of Life C1-C4	Benefits and Loads D
Climate change - total	kg CO ₂ eq.	3,32E+00	2,73E+00	4,76E-02	1,31E-02	4,97E-01	2,47E-02	-6,38E-01
Climate change - fossil	kg CO ₂ eq.	3,32E+00	2,77E+00	4,82E-02	-4,56E-03	4,90E-01	1,99E-02	-6,77E-01
Climate change - biogenic	kg CO ₂ eq.	-1,27E-02	-3,90E-02	-1,07E-03	1,76E-02	5,04E-03	4,66E-03	4,39E-02
Climate change - land use and land use change	kg CO ₂ eq.	8,85E-03	6,65E-03	4,96E-04	-3,57E-05	1,62E-03	1,22E-04	-5,05E-03
Ozone depletion	kg CFC 11 eq.	6,46E-11	5,35E-11	8,00E-15	-1,66E-14	1,12E-11	4,00E-15	-2,81E-12
Acidification	mol H ⁺ eq.	1,66E-02	1,54E-02	9,06E-05	-1,46E-05	1,07E-03	2,39E-05	-4,65E-03
Eutrophication - freshwater	kg P eq.	1,83E-05	1,70E-05	1,30E-07	-7,90E-08	1,05E-06	1,68E-07	-2,79E-06
Eutrophication - marine aquatic	kg N eq.	2,53E-03	2,23E-03	3,88E-05	-7,49E-06	2,57E-04	1,04E-05	-7,19E-04
Eutrophication - terrestrial	mol N- eq.	2,71E-02	2,37E-02	4,15E-04	-6,95E-05	2,88E-03	1,03E-04	-7,69E-03
Photochemical ozone formation	kg NMVOC	7,63E-03	6,90E-03	8,16E-05	-1,26E-05	6,39E-04	2,37E-05	-2,34E-03
Resource use, mineral and metals	kg Sb eq.	5,10E-04	5,10E-04	3,21E-09	-2,77E-09	1,02E-07	8,14E-10	-1,52E-04
Resource use, fossils	MJ	4,86E+01	3,79E+01	6,18E-01	-6,38E-02	1,00E+01	1,59E-01	-1,27E+01
Water use	m ³	7,50E-01	6,27E-01	2,20E-04	-1,82E-04	1,23E-01	1,01E-03	-2,36E-01

Additional environmental impact indicators

Indicator	Unit	Total*	Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End of Life C1-C4	Benefits and Loads D
Particulate matter	Disease incidences	1,65E-07	1,55E-07	7,60E-10	-1,72E-10	8,87E-09	2,07E-10	-4,32E-08
Ionising radiation, human health	kBq U235 eq.	3,68E-01	1,08E-01	1,67E-04	-3,79E-04	2,61E-01	7,18E-05	-1,88E-02
Ecotoxicity, freshwater	CTUe	2,25E+01	1,98E+01	8,03E-01	-2,22E-02	1,69E+00	2,05E-01	-5,94E+00
Human toxicity, cancer	CTUh	1,07E-09	8,97E-10	1,08E-11	-9,16E-13	1,59E-10	2,88E-12	-1,89E-09
Human toxicity, non-cancer	CTUh	4,92E-08	4,51E-08	6,06E-10	-6,57E-11	3,35E-09	1,66E-10	-1,34E-08
Land Use	-	1,56E+01	1,15E+01	2,73E-01	-2,41E-01	4,00E+00	6,81E-02	-2,60E+00

Resources use indicators

Indicator	Unit	Total*	Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End of Life C1-C4	Benefits and Loads D
Use of renewable primary energy	MJ	1,84E+01	1,16E+01	4,66E-02	-1,35E-01	6,83E+00	1,28E-02	-2,32E+00
Total use of renewable primary energy resources	MJ	1,84E+01	1,16E+01	4,66E-02	-1,35E-01	6,83E+00	1,28E-02	-2,32E+00
Use of non-renewable primary energy	MJ	4,86E+01	3,79E+01	6,18E-01	-6,38E-02	1,00E+01	1,59E-01	-1,27E+01
Total use of non-renewable primary energy resources	MJ	4,86E+01	3,79E+01	6,18E-01	-6,38E-02	1,00E+01	1,59E-01	-1,27E+01
Input of secondary material	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of renewable secondary fuels (RSF)	MJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Use of non-renewable secondary fuels (NRSF)	MJ	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Use of net fresh water	m³	3,01E-02	2,48E-02	2,30E-05	-2,81E-05	5,31E-03	2,84E-05	-6,10E-03

Waste category indicators

Indicator	Unit	Total*	Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End of Life C1-C4	Benefits and Loads D
Hazardous waste disposed	kg	7,44E-08	7,53E-08	2,48E-11	-9,56E-10	8,55E-12	1,52E-11	-3,33E-06
Non-hazardous waste disposed	kg	1,68E-01	1,61E-01	8,62E-05	7,79E-04	2,97E-05	5,64E-03	-1,17E-02
Radioactive waste disposed	kg	9,40E-04	9,40E-04	1,17E-06	-1,97E-06	4,02E-07	8,01E-07	-1,12E-04

*In accordance with the current Product Category Rules (PCR), the values presented in the 'Total' column do not include the benefits and loads beyond the system boundaries as represented in 'Module D'.

The following table represents the environmental impact indicators for products other than the reference product covered by this Environmental Product Declaration (EPD).

Product number	Life Cycle Phase	Climate change - total	Climate change - fossil	Climate change - biogenic	Climate change -land use and land use change	Ozone depletion	Acidification	Eutrophication - freshwater	Eutrophication - marine	Eutrophication - terrestrial	Photochemical ozone formation	Resource use, mineral and metals	Resource use, fossils	Water use
1334770000	Total*	3,70E+00	3,70E+00	-1,04E-02	9,47E-03	7,59E-11	1,87E-02	1,90E-05	2,75E-03	2,95E-02	8,42E-03	5,82E-04	5,45E+01	8,09E-01
	Manufacturing	3,10E+00	3,13E+00	-3,71E-02	7,11E-03	6,47E-11	1,75E-02	1,76E-05	2,44E-03	2,60E-02	7,66E-03	5,81E-04	4,35E+01	6,85E-01
	Distribution	5,93E-02	6,00E-02	-1,33E-03	6,18E-04	9,96E-15	1,13E-04	1,62E-07	4,83E-05	5,17E-04	1,02E-04	3,99E-09	7,69E-01	2,74E-04
	Installation	1,30E-02	-4,54E-03	1,76E-02	-3,56E-05	-1,66E-14	-1,46E-05	-7,88E-08	-7,47E-06	-6,93E-05	-1,26E-05	-2,76E-09	-6,36E-02	-1,80E-04
	Use	4,97E-01	4,90E-01	5,04E-03	1,62E-03	1,12E-11	1,07E-03	1,05E-06	2,57E-04	2,88E-03	6,39E-04	1,02E-07	1,00E+01	1,23E-01
	End of Life	2,92E-02	2,37E-02	5,33E-03	1,59E-04	4,70E-15	2,97E-05	1,95E-07	1,29E-05	1,27E-04	2,92E-05	1,05E-09	2,05E-01	1,06E-03
	Module D	-8,26E-01	-8,66E-01	4,59E-02	-6,77E-03	-3,56E-12	-6,18E-03	-3,59E-06	-9,38E-04	-1,00E-02	-3,04E-03	-2,05E-04	1,66E+01	-3,19E-01
1334790000	Total*	2,82E+00	2,83E+00	-1,78E-02	7,23E-03	5,34E-11	1,55E-02	1,72E-05	2,27E-03	2,42E-02	6,99E-03	5,11E-04	3,86E+01	6,29E-01
	Manufacturing	2,73E+00	2,76E+00	-3,90E-02	6,65E-03	5,34E-11	1,54E-02	1,70E-05	2,23E-03	2,37E-02	6,89E-03	5,11E-04	3,79E+01	6,28E-01
	Distribution	4,76E-02	4,82E-02	-1,07E-03	4,96E-04	8,00E-15	9,06E-05	1,30E-07	3,88E-05	4,15E-04	8,16E-05	3,21E-09	6,18E-01	2,20E-04
	Installation	1,31E-02	-4,56E-03	1,76E-02	-3,57E-05	-1,66E-14	-1,46E-05	-7,90E-08	-7,49E-06	-6,95E-05	-1,26E-05	-2,77E-09	-6,38E-02	-1,82E-04
	Use	1,39E-07	1,37E-07	1,41E-09	4,52E-10	3,12E-18	3,00E-10	2,93E-13	7,19E-11	8,06E-10	1,78E-10	2,85E-14	2,79E-06	3,43E-08
	End of Life	2,47E-02	1,99E-02	4,66E-03	1,22E-04	4,00E-15	2,39E-05	1,68E-07	1,04E-05	1,03E-04	2,37E-05	8,14E-10	1,59E-01	1,01E-03
	Module D	-6,38E-01	-6,77E-01	4,39E-02	-5,05E-03	-2,81E-12	-4,65E-03	-2,79E-06	-7,19E-04	-7,69E-03	-2,34E-03	-1,52E-04	1,27E+01	-2,36E-01
1334800000	Total*	3,70E+00	3,70E+00	-1,04E-02	9,46E-03	7,58E-11	1,87E-02	1,89E-05	2,75E-03	2,94E-02	8,41E-03	5,82E-04	5,44E+01	8,09E-01
	Manufacturing	3,10E+00	3,13E+00	-3,71E-02	7,11E-03	6,47E-11	1,75E-02	1,76E-05	2,44E-03	2,60E-02	7,66E-03	5,81E-04	4,35E+01	6,85E-01
	Distribution	5,93E-02	6,00E-02	-1,33E-03	6,18E-04	9,96E-15	1,13E-04	1,62E-07	4,83E-05	5,17E-04	1,02E-04	3,99E-09	7,69E-01	2,74E-04
	Installation	1,30E-02	-4,54E-03	1,76E-02	-3,56E-05	-1,66E-14	-1,46E-05	-7,88E-08	-7,47E-06	-6,93E-05	-1,26E-05	-2,76E-09	-6,36E-02	-1,80E-04
	Use	4,97E-01	4,90E-01	5,04E-03	1,62E-03	1,12E-11	1,07E-03	1,05E-06	2,57E-04	2,88E-03	6,39E-04	1,02E-07	1,00E+01	1,23E-01
	End of Life	2,92E-02	2,37E-02	5,33E-03	1,59E-04	4,70E-15	2,97E-05	1,95E-07	1,29E-05	1,27E-04	2,92E-05	1,05E-09	2,05E-01	1,06E-03
	Module D	-8,26E-01	-8,66E-01	4,59E-02	-6,77E-03	-3,56E-12	-6,18E-03	-3,59E-06	-9,38E-04	-1,00E-02	-3,04E-03	-2,05E-04	1,66E+01	-3,19E-01
1334810000	Total*	3,31E+00	3,32E+00	-1,27E-02	8,85E-03	6,46E-11	1,66E-02	1,82E-05	2,53E-03	2,71E-02	7,63E-03	5,10E-04	4,86E+01	7,50E-01
	Manufacturing	2,73E+00	2,76E+00	-3,90E-02	6,65E-03	5,35E-11	1,54E-02	1,70E-05	2,23E-03	2,37E-02	6,89E-03	5,10E-04	3,79E+01	6,26E-01
	Distribution	4,76E-02	4,82E-02	-1,07E-03	4,96E-04	8,00E-15	9,06E-05	1,30E-07	3,88E-05	4,15E-04	8,16E-05	3,21E-09	6,18E-01	2,20E-04
	Installation	1,31E-02	-4,56E-03	1,76E-02	-3,57E-05	-1,66E-14	-1,46E-05	-7,90E-08	-7,49E-06	-6,95E-05	-1,26E-05	-2,77E-09	-6,38E-02	-1,82E-04
	Use	4,97E-01	4,90E-01	5,04E-03	1,62E-03	1,12E-11	1,07E-03	1,05E-06	2,57E-04	2,88E-03	6,39E-04	1,02E-07	1,00E+01	1,23E-01
	End of Life	2,47E-02	1,99E-02	4,66E-03	1,22E-04	4,00E-15	2,39E-05	1,68E-07	1,04E-05	1,03E-04	2,37E-05	8,14E-10	1,59E-01	1,01E-03

	Module D	-6,38E-01	-6,77E-01	4,39E-02	-5,05E-03	-2,81E-12	-4,65E-03	-2,79E-06	-7,19E-04	-7,69E-03	-2,34E-03	-1,52E-04	1,27E+01	-2,36E-01
1315770000	Total*	6,64E-01	7,02E-01	-3,92E-02	1,25E-03	1,38E-11	2,88E-03	1,75E-06	5,46E-04	5,79E-03	1,70E-03	6,72E-05	1,10E+01	6,68E-02
	Manufacturing	6,10E-01	6,66E-01	-5,75E-02	8,77E-04	1,38E-11	2,82E-03	1,69E-06	5,22E-04	5,53E-03	1,64E-03	6,72E-05	1,06E+01	6,68E-02
	Distribution	3,24E-02	3,28E-02	-7,27E-04	3,38E-04	5,45E-15	6,17E-05	8,85E-08	2,64E-05	2,83E-04	5,56E-05	2,18E-09	4,21E-01	1,50E-04
	Installation	1,31E-02	-4,56E-03	1,76E-02	-3,57E-05	-1,66E-14	-1,46E-05	-7,90E-08	-7,49E-06	-6,95E-05	-1,26E-05	-2,77E-09	-6,38E-02	-1,82E-04
	Use	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	End of Life	9,23E-03	7,78E-03	1,37E-03	7,41E-05	1,44E-15	1,18E-05	5,54E-08	5,05E-06	5,08E-05	1,12E-05	4,83E-10	9,35E-02	9,05E-05
	Module D	-2,85E-01	-3,25E-01	4,19E-02	-1,80E-03	-1,44E-12	-1,75E-03	-1,31E-06	-2,98E-04	-3,17E-03	-1,00E-03	-5,07E-05	7,11E+00	-8,24E-02
2919660000	Total*	2,93E+00	2,94E+00	-1,63E-02	8,00E-03	4,37E-11	1,31E-02	1,74E-05	2,22E-03	2,37E-02	6,62E-03	3,74E-04	4,33E+01	6,46E-01
	Manufacturing	2,36E+00	2,40E+00	-4,23E-02	5,91E-03	3,25E-11	1,20E-02	1,62E-05	1,93E-03	2,05E-02	5,91E-03	3,74E-04	3,27E+01	5,22E-01
	Distribution	3,93E-02	3,97E-02	-8,80E-04	4,09E-04	6,60E-15	7,47E-05	1,07E-07	3,20E-05	3,42E-04	6,73E-05	2,64E-09	5,09E-01	1,82E-04
	Installation	1,31E-02	-4,56E-03	1,76E-02	-3,57E-05	-1,66E-14	-1,46E-05	-7,90E-08	-7,49E-06	-6,95E-05	-1,26E-05	-2,77E-09	-6,38E-02	-1,82E-04
	Use	4,97E-01	4,90E-01	5,04E-03	1,62E-03	1,12E-11	1,07E-03	1,05E-06	2,57E-04	2,88E-03	6,39E-04	1,02E-07	1,00E+01	1,23E-01
	End of Life	2,14E-02	1,71E-02	4,18E-03	9,64E-05	3,49E-15	1,98E-05	1,49E-07	8,63E-06	8,47E-05	1,98E-05	6,46E-10	1,26E-01	9,79E-04
	Module D	-3,90E-01	-4,30E-01	4,24E-02	-1,82E-03	-1,69E-12	-1,93E-03	-1,45E-06	-3,44E-04	-3,65E-03	-1,19E-03	-5,07E-05	8,99E+00	-8,46E-02

Please obtain the units from the table of the reference article.

*In accordance with the current Product Category Rules (PCR), the values presented in the 'Total' column do not include the benefits and loads beyond the system boundaries as represented in 'Module D'.

Date of issue: 20.03.2026

Validity period: 5 Years

Document in compliance with ISO 14021

« Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »