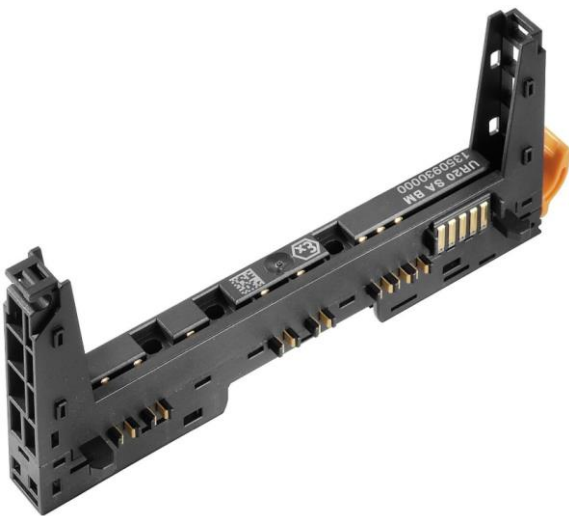


I/O System IP20 U-Remote: Basic modules

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmüller.com



General data

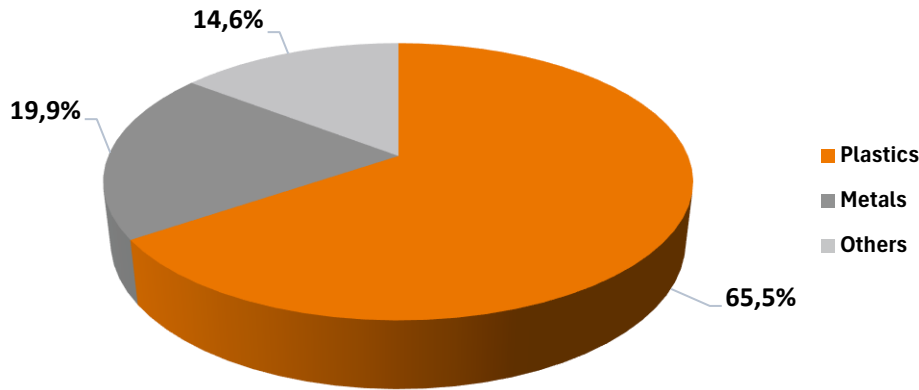
Reference product	1350930000 UR20-BM-SP
Description of the product	The base module is the connecting part of the module to the mounting rail. The base module contains the current paths and the system bus, which is routed through each additional module.
Functional unit	Connecting element in I/O system over the 20-year reference service life of the product.

Other products covered

1350940000	1350950000	1350970000	2832780000	2832790000
2832800000	2832810000			

Constituent Materials

The total weight of the reference product is 34,8 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)	46,4 %	M-121	Copper and its alloys	16 %	M-341	Paper	14,6 %
M-204	Polycarbonate (PC)	11,1 %	M-119	Other ferrous alloys, non-stainless steels	3,9 %			
M-261	Polybutylene terephthalate (PBT)	8,1 %						
Plastics in total		65,5 %	Metals in total		19,9 %	Others in total		14,6 %

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/1350930000>

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 Hörselbach-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	20 years			
Product category	Electrical switchgear and control gear solutions			
Installation elements	No special installation elements required.			
Use scenario	No energy is consumed during the products reference service lifetime.			
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

*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.	2,78E-01	2,54E-01	1,25E-02	6,82E-03	0,00E+00	4,14E-03	-1,84E-01
Climate change - fossil	kg CO ₂ eq.	2,77E-01	2,66E-01	1,27E-02	-5,00E-03	0,00E+00	3,49E-03	-1,84E-01
Climate change - biogenic	kg CO ₂ eq.	1,10E-04	-1,21E-02	-2,81E-04	1,19E-02	0,00E+00	6,16E-04	1,96E-03
Climate change - land use and land use change	kg CO ₂ eq.	6,60E-04	5,34E-04	1,31E-04	-3,81E-05	0,00E+00	3,33E-05	-1,62E-03
Ozone depletion	kg CFC 11 eq.	1,16E-11	1,16E-11	2,11E-15	-1,74E-14	0,00E+00	6,47E-16	-8,80E-13
Acidification	mol H+ eq.	1,97E-03	1,96E-03	2,39E-05	-1,66E-05	0,00E+00	5,30E-06	-1,47E-03
Eutrophication - freshwater	kg P eq.	6,17E-07	6,57E-07	3,42E-08	-9,87E-08	0,00E+00	2,49E-08	-7,57E-07
Eutrophication - marine aquatic	kg N eq.	2,56E-04	2,52E-04	1,02E-05	-8,44E-06	0,00E+00	2,27E-06	-2,15E-04
Eutrophication - terrestrial	mol N- eq.	2,78E-03	2,73E-03	1,09E-04	-7,77E-05	0,00E+00	2,28E-05	-2,33E-03
Photochemical ozone formation	kg NMVOC	7,81E-04	7,70E-04	2,15E-05	-1,55E-05	0,00E+00	5,01E-06	-7,13E-04
Resource use, mineral and metals	kg Sb eq.	6,71E-05	6,71E-05	8,45E-10	-2,80E-09	0,00E+00	2,17E-10	-5,06E-05
Resource use, fossils	MJ	3,92E+00	3,79E+00	1,63E-01	-6,98E-02	0,00E+00	4,20E-02	-3,36E+00
Water use	m ³	5,56E-02	5,61E-02	5,81E-05	-5,66E-04	0,00E+00	4,06E-05	-7,66E-02

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	2,00E-08	1,99E-08	2,00E-10	-1,87E-10	0,00E+00	4,73E-11	-1,32E-08
Ionising radiation, human health	kBq U235 eq.	1,13E-02	1,16E-02	4,41E-05	-3,92E-04	0,00E+00	1,28E-05	-5,59E-03
Ecotoxicity, freshwater	CTUe	2,70E+00	2,47E+00	2,12E-01	-2,79E-02	0,00E+00	5,46E-02	-1,27E+00
Human toxicity, cancer	CTUh	1,06E-10	1,03E-10	2,85E-12	-1,02E-12	0,00E+00	7,42E-13	-7,18E-10
Human toxicity, non-cancer	CTUh	6,71E-09	6,58E-09	1,60E-10	-7,30E-11	0,00E+00	4,19E-11	-4,22E-09
Land Use	-	1,99E+00	2,14E+00	7,19E-02	-2,43E-01	0,00E+00	1,84E-02	-5,48E-01

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	1,42E+00	1,54E+00	1,23E-02	-1,36E-01	0,00E+00	3,20E-03	-5,74E-01
Total use of renewable primary energy resources	MJ	1,42E+00	1,54E+00	1,23E-02	-1,36E-01	0,00E+00	3,20E-03	-5,74E-01
Use of non-renewable primary energy	MJ	3,92E+00	3,79E+00	1,63E-01	-6,98E-02	0,00E+00	4,20E-02	-3,36E+00
Total use of non-renewable primary energy resources	MJ	3,92E+00	3,79E+00	1,63E-01	-6,98E-02	0,00E+00	4,20E-02	-3,36E+00
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	5,56E-03	5,59E-03	6,06E-06	-3,73E-05	0,00E+00	2,17E-06	-1,88E-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	2,02E-08	2,11E-08	6,53E-12	-9,64E-10	0,00E+00	1,79E-12	-5,26E-07
Non-hazardous waste disposed	kg	4,15E-02	4,06E-02	2,27E-05	3,34E-04	0,00E+00	5,88E-04	-6,16E-03
Radioactive waste disposed	kg	1,08E-04	1,10E-04	3,07E-07	-2,39E-06	0,00E+00	8,87E-08	-5,20E-05

*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
1350940000	Total*	2,39E-01	2,38E-01	-5,11E-05	5,43E-04	8,56E-12	1,50E-03	5,40E-07	2,20E-04	2,39E-03	6,65E-04	4,71E-05	3,47E+00	4,05E-02
	Manufacturing	2,16E-01	2,28E-01	-1,23E-02	4,29E-04	8,58E-12	1,49E-03	5,85E-07	2,17E-04	2,34E-03	6,56E-04	4,71E-05	3,35E+00	4,10E-02
	Distribution	1,17E-02	1,18E-02	-2,62E-04	1,22E-04	1,96E-15	2,22E-05	3,19E-08	9,52E-06	1,02E-04	2,00E-05	7,86E-10	1,51E-01	5,41E-05
	Installation	6,86E-03	-5,03E-03	1,19E-02	-3,83E-05	-1,75E-14	-1,67E-05	-9,93E-08	-8,48E-06	-7,82E-05	-1,56E-05	-2,81E-09	-7,02E-02	-5,69E-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	3,80E-03	3,21E-03	5,65E-04	3,06E-05	5,94E-16	4,87E-06	2,29E-08	2,08E-06	2,09E-05	4,60E-06	1,99E-10	3,85E-02	3,73E-05
	Module D	-1,60E-01	-1,61E-01	1,72E-03	-1,15E-03	-7,52E-13	-1,11E-03	-5,73E-07	-1,68E-04	-1,82E-03	-5,73E-04	-3,55E-05	3,08E+00	-5,66E-02
1350950000 1350970000	Total*	2,78E-01	2,77E-01	1,11E-04	6,60E-04	1,16E-11	1,97E-03	6,17E-07	2,57E-04	2,78E-03	7,82E-04	6,71E-05	3,92E+00	5,56E-02
	Manufacturing	2,54E-01	2,66E-01	-1,21E-02	5,34E-04	1,16E-11	1,96E-03	6,57E-07	2,52E-04	2,73E-03	7,71E-04	6,71E-05	3,79E+00	5,61E-02
	Distribution	1,26E-02	1,27E-02	-2,82E-04	1,31E-04	2,11E-15	2,39E-05	3,43E-08	1,02E-05	1,09E-04	2,15E-05	8,46E-10	1,63E-01	5,81E-05
	Installation	6,82E-03	-5,00E-03	1,19E-02	-3,81E-05	-1,74E-14	-1,66E-05	-9,87E-08	-8,44E-06	-7,77E-05	-1,55E-05	-2,80E-09	-6,98E-02	-5,66E-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	4,15E-03	3,50E-03	6,17E-04	3,33E-05	6,48E-16	5,31E-06	2,49E-08	2,27E-06	2,28E-05	5,02E-06	2,17E-10	4,20E-02	4,07E-05
	Module D	-1,84E-01	-1,84E-01	1,96E-03	-1,62E-03	-8,80E-13	-1,47E-03	-7,57E-07	-2,15E-04	-2,33E-03	-7,13E-04	-5,06E-05	3,36E+00	-7,66E-02
2832780000	Total*	2,60E-01	2,60E-01	-7,37E-05	6,60E-04	1,13E-11	1,94E-03	5,83E-07	2,51E-04	2,71E-03	7,58E-04	6,71E-05	3,58E+00	5,50E-02
	Manufacturing	2,36E-01	2,48E-01	-1,23E-02	5,28E-04	1,13E-11	1,93E-03	6,20E-07	2,46E-04	2,66E-03	7,46E-04	6,71E-05	3,43E+00	5,55E-02
	Distribution	1,30E-02	1,32E-02	-2,91E-04	1,35E-04	2,18E-15	2,47E-05	3,55E-08	1,06E-05	1,13E-04	2,23E-05	8,75E-10	1,69E-01	6,02E-05
	Installation	6,80E-03	-4,99E-03	1,18E-02	-3,80E-05	-1,74E-14	-1,66E-05	-9,85E-08	-8,42E-06	-7,76E-05	-1,55E-05	-2,79E-09	-6,96E-02	-5,65E-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	4,32E-03	3,64E-03	6,42E-04	3,47E-05	6,75E-16	5,53E-06	2,60E-08	2,36E-06	2,38E-05	5,23E-06	2,26E-10	4,38E-02	4,24E-05
	Module D	-1,89E-01	-1,90E-01	2,00E-03	-1,62E-03	-9,05E-13	-1,48E-03	-7,63E-07	-2,18E-04	-2,36E-03	-7,25E-04	-5,06E-05	3,48E+00	-7,67E-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: 04.02.2026

Validity period: 5 Years

Document in compliance with ISO 14021

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