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The energy infrastructure is changing: More decentralized generators such as PV systems and the growing use of electrical consumers are increasing load fluctuations in the power grid. This makes grid operation more difficult. According to Section 14a of the German Energy Industry Act (EnWG) and Section 9 of the Renewable Energy Sources Act (EEG), generators and consumers must be controllable, usually via digital signals from the smart meter gateway. Many existing analog devices only have simple switching inputs. The EEBUS Relay Converter (ERC) connects the digital smart grid and analog technology. It receives EEBUS control commands and converts them into standardized relay circuits according to the VDE-FNN control concept. This makes analog devices controllable in accordance with Section 14a EnWG and Section 9 EEG.

General ordering data

Order No.	3179090000
Type	ERC-1TX-4CO
GTIN (EAN)	4099987895521
Qty.	1 items

Technical data

Dimensions and weights

Depth	72.9 mm	Depth (inches)	2.8701 inch
Height	90 mm	Height (inches)	3.5433 inch
Width	53.8 mm	Width (inches)	2.1181 inch
Length	54 mm	Length (inches)	2.126 inch
Net weight	140 g		

Temperatures

Storage temperature	-25 °C...70 °C	Operating temperature	-25 °C...55 °C
Humidity	0...95 % (no condensation)		

General data

Corresponds to § 14a EnWG	Yes	Corresponds to §9 EEG	Yes
Corresponds to VDE FNN	Yes	Altitude	≤ 2000 m
LED indicator available	Yes	Webserver available	Yes
Type of device firmware update	Local (via device webserver), Remote (via Weidmüller server)		

Housing

Protection class	II	Protection degree	IP30
Type of mounting	DIN rail	Mounting depth	73 mm

Power supply

Operating voltage	230V AC -20% + 15%	Power consumption, typ.	4 W
Frequency	50 Hz	Frequency range, min.	42.5 Hz
Frequency range, max.	62.5 Hz	Output voltage DC for Weidmüller switch	5 V
Output current for Weidmüller switch, max.	200 mA		

Relay

Number of relay outputs	4	Max. switching voltage, AC	250 V
Switching current, max.	6 A	Switching power, max.	1500 W
Conductor cross-section, max.	6 mm ²		

Communication

Bus system	EEBUS	Interface	Ethernet
Bus line connection via	RJ45-Port	Ethernet port available	Yes
Controllable Local System (CLS) - Energy No Efficiency Data Interface (EEDI) available			

Classifications

ETIM 8.0	EC001097	ETIM 9.0	EC001097
ETIM 10.0	EC001097	ECLASS 14.0	27-14-31-25
ECLASS 15.0	27-14-31-25		

ERC-1TX-4CO

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 Germany

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Accessories

6kV Patchcords extra slim white



Pre-assembled cables with 2x RJ45 in IP20, suitable for smart metering applications, Cat.6 Microline - extra thin (AWG30), unshielded, for tight spaces, other colors on request

General ordering data

Type	IE-C6N08LW0002S40S40-W...	Version
Order No.	3109120002	Patch cable Mircoline, RJ45 IP 20, RJ45 IP 20, Cat. 6, LSZH, 0.2 m, ,
GTIN (EAN)	4099987 186407	straight, 6 kV
Qty.	1 ST	
Type	IE-C6N08LW0005S40S40-W...	Version
Order No.	3109120005	Patch cable Mircoline, RJ45 IP 20, RJ45 IP 20, Cat. 6, LSZH, 0.5 m, ,
GTIN (EAN)	4099987 186438	straight, 6 kV
Qty.	1 ST	
Type	IE-C6N08LW0010S40S40-W...	Version
Order No.	3109120010	Patch cable Mircoline, RJ45 IP 20, RJ45 IP 20, Cat. 6, LSZH, 1 m, ,
GTIN (EAN)	4099987 186452	straight, 6 kV
Qty.	1 ST	

Cables



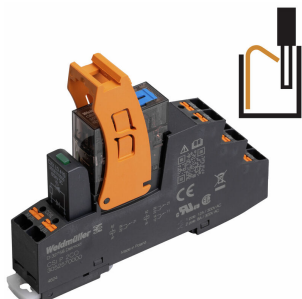
Base counter, gateway, control box and overvoltage protection device are connected with pre-assembled cable sets as point-to-point or Y-assembly. Weidmüller offers the right connection solutions for this, conforming to FNN and DIN-VDE 0603 standards. Pre-assembled power cables with 6kV overvoltage protection round up the portfolio.

General ordering data

Type	CH-SMR-00.33-YCC90 VPE10	Version
Order No.	2924960033	Smart Metering Cable Assemblies, 6 kV, IP30, in plugged and
GTIN (EAN)	4099986795617	mounted condition, 300 V, Li9YH 1 x 0,75,
Qty.	10 ST	
Type	CH-SMR-00.60-ECB90 VPE10	Version
Order No.	2924890060	Smart Metering Cable Assemblies, 6 kV, IP30, in plugged and
GTIN (EAN)	4099986795686	mounted condition, 300 V, Li9YH 1 x 0,75, 0.6 m
Qty.	10 ST	

Accessories

PUSH IN connection



Relay sockets with PUSH IN connection for quick installation

General ordering data

Type	CRIKIT P 230VAC 2CO L	Version	
Order No.	3137420000	CUBESERIES, Relay module, Number of contacts: 2, CO contact AgNi,	
GTIN (EAN)	4099987361880	Rated control voltage: 230 V AC, Continuous current: 8 A, PUSH IN,	
Qty.	10 ST	Test button available: No	