

开关量剩余电流传感器 选型手册

CATALOG OF RESIDUAL CURRENT SENSORS FOR EV CHARGING

2024 V1.3



浙江巨磁智能技术有限公司

ZHEJIANG MAGTRON INTELLIGENT TECHNOLOGY CO.,LTD

开关量剩余电流传感器

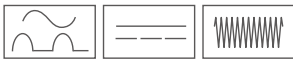
RESIDUAL CURRENT SENSORS FOR EV CHARGING

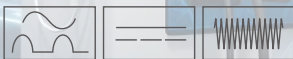
▶▶ 剩余电流动作特性满足以下标准 / acc. to standard

- IEC 61851
- GB/T 41589
- IEC 62955
- IEC 62423
- UL 2231-2
- GB/T 18487
- IEC 62752
- GB/T 40820
- GB/T 22794
- IEC 61008

▶▶ 产品应用 / Applications

- 随车充（模式二充电IC-CPD） / Portable EV charger (Mode 2 IC-CPD)
- 交流充电桩，Wallbox（模式三充电） / AC Charging pile、Wallbox (Mode 3 EV charger)

剩余电流保护类型	故障电流分量	典型保护类型
6mA DC 	平滑直流	交流充电桩、Wallbox（模式三充电）直流剩余电流检测装置可覆盖6mA平滑直流的剩余电流保护
EV型 	正弦交流 脉动直流 平滑直流	交流充电桩（模式二，模式三充电） EV型剩余电流保护设备可覆盖AC型、A型及平滑直流6mA以上剩余电流保护
B型 	正弦交流 脉动直流 平滑直流 高频交流	交流充电桩（模式三充电） B型剩余电流保护设备可覆盖AC型，A型，F型及平滑直流的剩余电流保护

Types	Form of residual current	Typical Protection Type
6mA DC 	Smooth DC	DC residual current detection device for AC Charging pile, Wallbox (Mode 3 EV charger) Residual current protection that can cover 6mA smooth DC
Type EV 	Alternating Current Pulsating DC Smooth DC	AC EV charging (Mode 2, Mode 3 EV charging) Type EV residual current protection that can cover type AC, type A and above DC 6mA
Type B 	Alternating Current Pulsating DC Smooth DC High Frequency AC	AC EV charging (Mode 3 EV charging) Type B residual current protection that can cover type AC, type A, type F and smooth DC

RCMU101SM1系列

RCMU101SM1 series



RCMU101SM1-2EI-K

►► 产品说明 / Product description

RCMU101SM1系列剩余电流传感器基于Magtron iFluxgate®技术，核心处理芯片采用自主研发的SoC，集成自检功能和逻辑判断，模块化设计，产品广泛应用于欧标、美标和新国标的电动汽车充电设施模式二随车充(IC-CPD)、模式三交流充电桩剩余电流保护。产品已获得CE、UL、莱茵、德凯、上电科、南德和SGS等机构的权威认证。

产品符合RoHS REACH

RCMU101SM1 series residual current sensors are based on Magtron iFluxgate® technology, with the core processing chip utilizing a self-developed SoC. The modular design integrates self-check function and logical judgment. The products are widely used in Mode 2 In-Cable Control and Protection Devices (IC-CPD) for electric vehicle charging facilities complying with IEC, UL, and GB standards, as well as Mode 3 AC charging station residual current protection. The products have obtained authoritative certifications from institutions such as CE, UL, TÜV, DEKRA, and SGS. The products also comply with RoHS and REACH regulations.

►► 产品特点 / Characteristics

- 高低电平输出 / High-low Output
- 集成自检功能 / Self-check Function
- 方便安装 / Easy Installation
- 单电源5V供电 / Single Power Supply 5V
- 满足B型或A+6mA剩余电流保护要求 / Type B or A+6mA

►► 剩余电流动作特性满足以下标准 / acc. to standard

- IEC 61851
- GB/T 18487
- GB/T 41589
- IEC 62752
- IEC 62955
- GB/T 40820
- IEC 62423
- GB/T 22794

►► 产品应用 / Applications

- 随车充（模式二充电IC-CPD） / Portable EV charger (Mode 2 IC-CPD)
- 交流充电桩，Wallbox（模式三充电） / AC Charging pile、Wallbox (Mode 3 EV charger)

►► 参数 / parameter

供电电压	/	+5V
输出方式	/	高低电平输出
工作温度	/	-40~85°C
最大载流能力	/	20A
保护类型	/	-K:TypeA+6mADC
应用范围	/	单相3.3kW

►► Parameter description

V _{CC}	/	+5V
Output mode	/	High-low output
T _A	/	-40~85°C
I _M	/	20A
Protect Type	/	-K:TypeA+6mADC
Scope of application	/	Single-phase 3.3kW

RCMU101SM2系列

RCMU101SM2 series

RCMU101SM2-EI-K

▶▶ 产品说明 / Product description

RCMU101SM2系列剩余电流传感器基于Magtron iFluxgate®技术，核心处理芯片采用自主研发的SoC，集成自检功能和逻辑判断，模块化设计，产品广泛应用于欧标、美标和新国标的电动汽车充电设施模式二随车充(IC-CPD)、模式三交流充电桩剩余电流保护。产品已获得CE、UL、莱茵、德凯、上电科、南德和SGS等机构的权威认证。

产品符合RoHS REACH

RCMU101SM2 series residual current sensors are based on Magtron iFluxgate® technology, with the core processing chip utilizing a self-developed SoC. The modular design integrates self-check function and logical judgment. The products are widely used in Mode 2 In-Cable Control and Protection Devices (IC-CPD) for electric vehicle charging facilities complying with IEC, UL, and GB standards, as well as Mode 3 AC charging station residual current protection. The products have obtained authoritative certifications from institutions such as CE, UL, TÜV, DEKRA, and SGS. The products also comply with RoHS and REACH regulations.

▶▶ 产品特点 / Characteristics

- 高低电平输出 / High-low Output
- 集成自检功能 / Self-check Function
- 方便安装 / Easy Installation
- 单电源5V供电 / Single Power Supply 5V
- 满足B型或A+6mA剩余电流保护要求 / Type B or A+6mA

▶▶ 剩余电流动作特性满足以下标准 / acc. to standard

- IEC 61851
- GB/T 18487
- GB/T 41589
- IEC 62752
- IEC 62955
- GB/T 40820
- IEC 62423
- GB/T 22794

▶▶ 产品应用 / Applications

- 随车充（模式二充电IC-CPD） / Portable EV charger (Mode 2 IC-CPD)
- 交流充电桩，Wallbox（模式三充电） / AC Charging pile、Wallbox (Mode 3 EV charger)

▶▶ 参数 / parameter

供电电压	/	+5V
输出方式	/	高低电平输出
工作温度	/	-40~85°C
最大载流能力	/	由使用者决定
保护类型	/	-K:TypeA+6mADC
应用范围	/	单相7kW
孔径尺寸	/	10mm

▶▶ Parameter description

Vcc	/	+5V
Output mode	/	High-low output
T _A	/	-40~85°C
I _M	/	At user's discretion
Protect Type	/	-K:TypeA+6mADC
Scope of application	/	Single-phase 7kW
Inner diameter	/	10mm

RCMU101SM3系列

RCMU101SM3 series

RCMU101SM3-6EI-K
RCMU101SM3-6EI-D

▶▶ 产品说明 / Product description

RCMU101SM3系列剩余电流传感器基于Magtron iFluxgate®技术，核心处理芯片采用自主研发的SoC，集成自检功能和逻辑判断，模块化设计，产品广泛应用于欧标、美标和新国标的电动汽车充电设施模式二随车充(IC-CPD)、模式三交流充电桩剩余电流保护。产品已获得CE、UL、莱茵、德凯、上电科、南德和SGS等机构的权威认证。

产品符合RoHS REACH

RCMU101SM3 series residual current sensors are based on Magtron iFluxgate® technology, with the core processing chip utilizing a self-developed SoC. The modular design integrates self-check function and logical judgment. The products are widely used in Mode 2 In-Cable Control and Protection Devices (IC-CPD) for electric vehicle charging facilities complying with IEC, UL, and GB standards, as well as Mode 3 AC charging station residual current protection. The products have obtained authoritative certifications from institutions such as CE, UL, TÜV, DEKRA, and SGS. The products also comply with RoHS and REACH regulations.

▶▶ 产品特点 / Characteristics

- 高低电平输出 / High-low Output
- 集成自检功能 / Self-check Function
- 方便安装 / Easy Installation
- 单电源5V供电 / Single Power Supply 5V
- 满足B型或A+6mA剩余电流保护要求 / Type B or A+6mA

▶▶ 剩余电流动作特性满足以下标准 / acc. to standard

- IEC 61851
- GB/T 18487
- GB/T 41589
- IEC 62752
- IEC 62955
- GB/T 40820
- IEC 62423
- GB/T 22794

▶▶ 产品应用 / Applications

- 随车充（模式二充电IC-CPD） / Portable EV charger (Mode 2 IC-CPD)
- 交流充电桩，Wallbox（模式三充电） / AC Charging pile、Wallbox (Mode 3 EV charger)

▶▶ 参数 / parameter

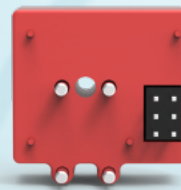
供电电压	/	+5V
输出方式	/	高低电平输出
工作温度	/	-40~85°C
最大载流能力	/	42A
保护类型	/	-K:TypeA+6mADC -D:6mADC
应用范围	/	单相7kW

▶▶ Parameter description

V _{CC}	/	+5V
Output mode	/	High-low output
T _A	/	-40~85°C
I _M	/	42A
Protect Type	/	-K:TypeA+6mADC -D:6mADC
Scope of application	/	Single-phase 7kW

RCMU101SM4系列

RCMU101SM4 series



RCMU101SM4-2EI-K

▶▶ 产品说明 / Product description

RCMU101SM4系列剩余电流传感器基于Magtron iFluxgate®技术，核心处理芯片采用自主研发的SoC，集成自检功能和逻辑判断，模块化设计，产品广泛应用于欧标、美标和新国标的电动汽车充电设施模式二随车充(IC-CPD)、模式三交流充电桩剩余电流保护。产品已获得CE、UL、莱茵、德凯、上电科、南德和SGS等机构的权威认证。

产品符合RoHS REACH

RCMU101SM4 series residual current sensors are based on Magtron iFluxgate® technology, with the core processing chip utilizing a self-developed SoC. The modular design integrates self-check function and logical judgment. The products are widely used in Mode 2 In-Cable Control and Protection Devices (IC-CPD) for electric vehicle charging facilities complying with IEC, UL, and GB standards, as well as Mode 3 AC charging station residual current protection. The products have obtained authoritative certifications from institutions such as CE, UL, TÜV, DEKRA, and SGS. The products also comply with RoHS and REACH regulations.

▶▶ 产品特点 / Characteristics

- 高低电平输出 / High-low Output
- 集成自检功能 / Self-check Function
- 方便安装 / Easy Installation
- 单电源5V供电 / Single Power Supply 5V
- 满足B型或A+6mA剩余电流保护要求 / Type B or A+6mA

▶▶ 剩余电流动作特性满足以下标准 / acc. to standard

- IEC 61851
- GB/T 18487
- GB/T 41589
- IEC 62752
- IEC 62955
- GB/T 40820
- IEC 62423
- GB/T 22794

▶▶ 产品应用 / Applications

- 随车充（模式二充电IC-CPD） / Portable EV charger (Mode 2 IC-CPD)
- 交流充电桩，Wallbox（模式三充电） / AC Charging pile、Wallbox (Mode 3 EV charger)

▶▶ 参数 / parameter

供电电压	/	+5V
输出方式	/	高低电平输出
工作温度	/	-40~85°C
最大载流能力	/	20A
保护类型	/	-K:TypeA+6mADC
应用范围	/	单相3.3kW

▶▶ Parameter description

Vcc	/	+5V
Output mode	/	High-low output
T _A	/	-40~85°C
I _M	/	20A
Protect Type	/	-K:TypeA+6mADC
Scope of application	/	Single-phase 3.3kW

RCMU101SN-E系列

RCMU101SN-E series

RCMU101SN-E-6MD
RCMU101SN-E-6MKRCMU101SN-E-6SD
RCMU101SN-E-6SK

RCMU101SN-E-7LK

▶▶ 产品说明 / Product description

RCMU101SN-E系列剩余电流传感器基于Magtron iFluxgate®技术，核心处理芯片采用自主研发的SoC，集成自检功能和逻辑判断，模块化设计，产品广泛应用于欧标、美标和新国标的电动汽车充电设施模式二随车充(IC-CPD)、模式三交流充电桩剩余电流保护。

产品已获得CE、UL、莱茵、德凯、上电科、南德和SGS等机构的权威认证。

产品符合RoHS REACH

RCMU101SN-E series residual current sensors are based on Magtron iFluxgate® technology, with the core processing chip utilizing a self-developed SoC. The modular design integrates self-check function and logical judgment. The products are widely used in Mode 2 In-Cable Control and Protection Devices (IC-CPD) for electric vehicle charging facilities complying with IEC, UL, and GB standards, as well as Mode 3 AC charging station residual current protection. The products have obtained authoritative certifications from institutions such as CE, UL, TÜV, DEKRA, and SGS. The products also comply with RoHS and REACH regulations.

▶▶ 产品特点 / Characteristics

- 高低电平输出 / High-low Output
- 集成自检功能 / Self-check Function
- 方便安装 / Easy Installation
- 单电源5V供电 / Single Power Supply 5V
- 满足B型或A+6mA剩余电流保护要求 / Type B or A+6mA

▶▶ 剩余电流动作特性满足以下标准 / acc. to standard

- IEC 61851
- GB/T 18487
- GB/T 41589
- IEC 62752
- IEC 62955
- GB/T 40820
- IEC 62423
- GB/T 22794

▶▶ 产品应用 / Applications

- 随车充（模式二充电IC-CPD） / Portable EV charger (Mode 2 IC-CPD)
- 交流充电桩，Wallbox（模式三充电） / AC Charging pile、Wallbox (Mode 3 EV charger)

▶▶ 参数 / parameter	▶▶ Parameter description
供电电压 / +5V	Vcc / +5V
输出方式 / 高低电平输出	Output mode / High-low output
工作温度 / -40~85°C	T _A / -40~85°C
最大载流能力 / 由使用者决定	I _M / At user's discretion
保护类型 / -K:TypeA+6mADC -D:6mADC	Protect Type / -K:TypeA+6mADC -D:6mADC
应用范围 / 最大可适配22kW单相或三相	Scope of application / Adaptable up to 22kW
孔径尺寸 / 6MD: 12.8mm 6SD: 20mm 7LK: 13.5mm	Inner diameter / 6MD: 12.8mm 6SD: 20mm 7LK: 13.5mm

RCMU101SN-4P系列

RCMU101SN-4P series

RCMU101SN-4P4E-6MK
RCMU101SN-4P4E-6MD
RCMU101SN-4P4E-6SKRCMU101SN-4P6E-6MD
RCMU101SN-4P6E-6MK

RCMU101SN-4P10E-6SK

RCMU101SN-4P4E-7LK
RCMU101SN-4P4E-7LK5

▶▶ 产品说明 / Product description

RCMU101SN-4P系列剩余电流传感器基于Magtron iFluxgate®技术，核心处理芯片采用自主研发的SoC,集成自检功能和逻辑判断，模块化设计，产品广泛应用于欧标、美标和新国标的电动汽车充电设施模式二随车充(IC-CPD)、模式三交流充电桩剩余电流保护。产品已获得CE、UL、莱茵、德凯、上电科、南德和SGS等机构的权威认证。产品符合RoHS REACH

RCMU101SN-4P series residual current sensors are based on Magtron iFluxgate® technology, with the core processing chip utilizing a self-developed SoC. The modular design integrates self-check function and logical judgment. The products are widely used in Mode 2 In-Cable Control and Protection Devices (IC-CPD) for electric vehicle charging facilities complying with IEC, UL, and GB standards, as well as Mode 3 AC charging station residual current protection. The products have obtained authoritative certifications from institutions such as CE, UL, TÜV, DEKRA, and SGS. The products also comply with RoHS and REACH regulations.

▶▶ 产品特点 / Characteristics

- 高低电平输出 / High-low Output
- 集成自检功能 / Self-check Function
- 方便安装 / Easy Installation
- 单电源5V供电 / Single Power Supply 5V
- 满足B型或A+6mA剩余电流保护要求 / Type B or A+6mA

▶▶ 剩余电流动作特性满足以下标准 / acc. to standard

- IEC 61851
- GB/T 18487
- GB/T 41589
- IEC 62752
- IEC 62955
- GB/T 40820
- IEC 62423
- GB/T 22794

▶▶ 产品应用 / Applications

- 随车充（模式二充电IC-CPD） / Portable EV charger (Mode 2 IC-CPD)
- 交流充电桩，Wallbox（模式三充电） / AC Charging pile、Wallbox (Mode 3 EV charger)

▶▶ 参数 / parameter

供电电压	/	+5V
输出方式	/	高低电平输出
工作温度	/	-40~85℃
最大载流能力	/	32A、42A、65A
保护类型	/	-K:TypeA+6mADC -D:6mADC
应用范围	/	最大可适配22kW单相或三相

▶▶ Parameter description

Vcc	/	+5V
Output mode	/	High-low output
T _A	/	-40~85℃
I _M	/	32A、42A、65A
Protect Type	/	-K:TypeA+6mADC -D:6mADC
Scope of application	/	Adaptable up to 22kW

RCMU101SN-E-D1系列

RCMU101SN-E-D1 series

RCMU101SN-E-4MD-D1
RCMU101SN-E-4MK-D1RCMU101SN-E-4SD-D1
RCMU101SN-E-4SK-D1

▶▶ 产品说明 / Product description

RCMU101SN-E-D1系列剩余电流传感器基于Magtron iFluxgate®技术，核心处理芯片采用自主研发的SoC，集成自检功能和逻辑判断，模块化设计，产品广泛应用于欧标、美标和新国标的电动汽车充电设施模式二随车充(IC-CPD)、模式三交流充电桩剩余电流保护。

产品已获得CE、UL、莱茵、德凯、上电科、南德和SGS等机构的权威认证。

产品符合RoHS REACH

RCMU101SN-E-D1 series residual current sensors are based on Magtron iFluxgate® technology, with the core processing chip utilizing a self-developed SoC. The modular design integrates self-check function and logical judgment. The products are widely used in Mode 2 In-Cable Control and Protection Devices (IC-CPD) for electric vehicle charging facilities complying with IEC, UL, and GB standards, as well as Mode 3 AC charging station residual current protection. The products have obtained authoritative certifications from institutions such as CE, UL, TÜV, DEKRA, and SGS. The products also comply with RoHS and REACH regulations.

▶▶ 产品特点 / Characteristics

- 高低电平输出 / High-low Output
- 集成自检功能 / Self-check Function
- 方便安装 / Easy Installation
- 单电源5V供电 / Single Power Supply 5V
- 满足B型或A+6mA剩余电流保护要求 / Type B or A+6mA

▶▶ 剩余电流动作特性满足以下标准 / acc. to standard

- IEC 61851
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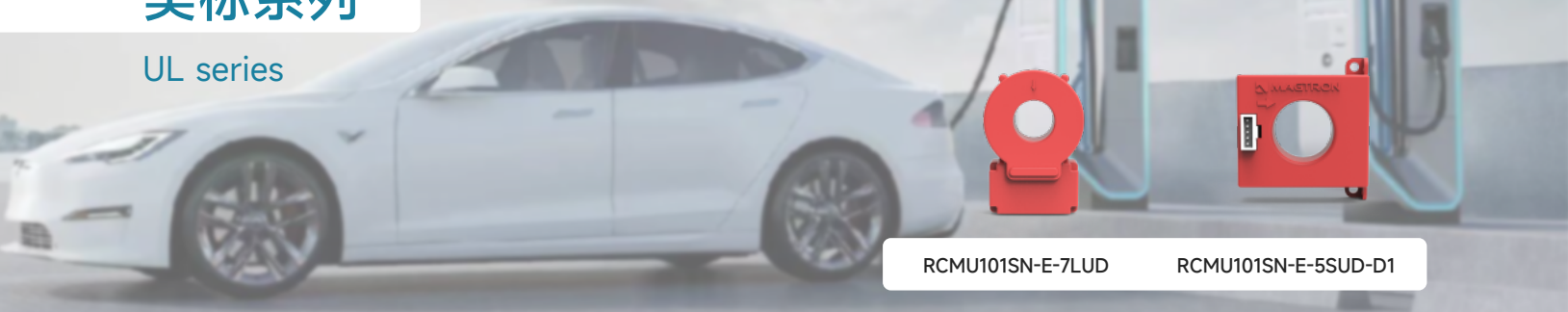
▶▶ 产品应用 / Applications

- 随车充（模式二充电IC-CPD） / Portable EV charger (Mode 2 IC-CPD)
- 交流充电桩，Wallbox（模式三充电） / AC Charging pile、Wallbox (Mode 3 EV charger)

▶▶ 参数 / parameter	▶▶ Parameter description
供电电压 / +5V	Vcc / +5V
输出方式 / 高低电平输出	Output mode / High-low output
工作温度 / -40~85℃	T _A / -40~85℃
最大载流能力 / 由使用者决定	I _M / At user's discretion
保护类型 / -K:TypeA+6mADC -D:6mADC	Protect Type / -K:TypeA+6mADC -D:6mADC
应用范围 / 最大可适配22kW单相或三相	Scope of application / Adaptable up to 22kW
孔径尺寸 / 4MD-D1: 13.8mm 4SD-D1: 20.6mm	Inner diameter / 4MD-D1: 13.8mm 4SD-D1: 20.6mm

美标系列

UL series



RCMU101SN-E-7LUD

RCMU101SN-E-5SUD-D1

▶▶ 产品说明 / Product description

美标剩余电流传感器基于Magtron iFluxgate®技术，核心处理芯片采用自主研发的SoC，集成自检功能和逻辑判断，模块化设计，产品广泛应用于美标电动汽车充电设施剩余电流保护。

产品已获得UL认证，产品符合RoHS REACH

American standard residual current sensor is based on Magtron iFluxgate® technology, the core processing chip adopts self-developed SoC, integrated self-test function and logic judgment, modular design, products are widely used in American standard electric vehicle charging facilities residual current protection.

Products have obtained UL certification, products comply with RoHS REACH

▶▶ 产品特点 / Characteristics

- 双Trip输出 / Double Trip Output
- 集成自检功能 / Self-check Function
- 方便安装 / Easy Installation
- 单电源5V供电 / Single Power Supply 5V
- 满足CCID20/6mA DC剩余电流保护要求 / CCID20/6mA DC

▶▶ 剩余电流动作特性满足以下标准 / acc. to standard

- UL 2231-2
- GB/T 40820
- IEC 62955

▶▶ 产品应用 / Applications

- 美标电动汽车充电设施 / American standard electric vehicle charging facilities

▶▶ 参数 / parameter

供电电压	/	+5V
输出方式	/	双Trip输出
工作温度	/	-40~85°C
最大载流能力	/	由使用者决定
保护类型	/	CCID20/6mA DC
应用范围	/	最大可适配19.2kW
孔径尺寸	/	7LUD: 13.5mm 5SUD-D1: 20.6mm

▶▶ Parameter description

V _{cc}	/	+5V
Output mode	/	Double Trip output
T _A	/	-40~85°C
I _M	/	At user's discretion
Protect Type	/	CCID20/6mA DC
Scope of application	/	Adaptable up to 19.2kW
inner diameter	/	7LUD: 13.5mm 5SUD-D1: 20.6mm

美标系列

UL series



RCMU101SM3-6EI-UD

RCMU101SN-4P4E-7LUD

RCMU101SN-4P6E-6MUD

▶▶ 产品说明 / Product description

美标剩余电流传感器基于Magtron iFluxgate®技术，核心处理芯片采用自主研发的SoC，集成自检功能和逻辑判断，模块化设计，产品广泛应用于美标电动汽车充电设施剩余电流保护。

产品已获得UL认证，产品符合RoHS REACH

American standard residual current sensor is based on Magtron iFluxgate® technology, the core processing chip adopts self-developed SoC, integrated self-test function and logic judgment, modular design, products are widely used in American standard electric vehicle charging facilities residual current protection.

Products have obtained UL certification, products comply with RoHS REACH

▶▶ 产品特点 / Characteristics

- 双Trip输出 / Double Trip Output
- 集成自检功能 / Self-check Function
- 方便安装 / Easy Installation
- 单电源5V供电 / Single Power Supply 5V
- 满足CCID20/6mA DC剩余电流保护要求 / CCID20/6mA DC

▶▶ 剩余电流动作特性满足以下标准 / acc. to standard

- UL 2231-2
- GB/T 40820
- IEC 62955

▶▶ 产品应用 / Applications

- 美标电动汽车充电设施 / American standard electric vehicle charging facilities

▶▶ 参数 / parameter	▶▶ Parameter description
供电电压 / +5V	V _{cc} / +5V
输出方式 / 双Trip输出	Output mode / Double Trip output
工作温度 / -40~85°C	T _A / -40~85°C
最大载流能力 / 40A、80A	I _M / 40A、80A
保护类型 / CCID20/6mA DC	Protect Type / CCID20/6mA DC
应用范围 / 最大可适配19.2kW	Scope of application / Adaptable up to 19.2kW

新国标系列

New national standard series

✓ 新国标

✓ 低成本

RCMU101SM7-EI-7WK B

RCMU101SM7-EI-7WK A

RCMU101SM7-EI-7WK-01

▶▶ 产品说明 / Product description

RCMU101SM7系列剩余电流传感器基于Magtron iFluxgate®技术，核心处理芯片采用自主研发的SoC，集成自检功能和逻辑判断，模块化设计，产品应用于新国标电动汽车充电设施模式二随车充(IC-CPD)、模式三交流充电桩剩余电流保护。

RCMU101SM7 series residual current sensors are based on Magtron iFluxgate® technology, with the core processing chip utilizing a self-developed SoC. The modular design integrates self-check function and logical judgment. The products are applied to the new national standard electric vehicle charging facilities mode two with vehicle charging (IC-CPD), mode three AC charging pile residual current protection.

▶▶ 产品特点 / Characteristics

- 高低电平输出 / High-low Output
- 集成自检功能 / Self-check Function
- 方便安装 / Easy Installation
- 单电源5V供电 / Single Power Supply 5V
- 满足B型或A+6mA剩余电流保护要求 / Type B or A+6mA

▶▶ 剩余电流动作特性满足以下标准 / acc. to standard

- GB/T 18487
- GB/T 41589
- GB/T 40820
- GB/T 22794
- IEC 61851
- IEC 62752
- IEC 62955
- IEC 62423

▶▶ 产品应用 / Applications

- 随车充（模式二充电IC-CPD） / Portable EV charger (Mode 2 IC-CPD)
- 交流充电桩，Wallbox（模式三充电） / AC Charging pile、Wallbox (Mode 3 EV charger)

▶▶ 参数 / parameter

供电电压	/	+5V
输出方式	/	高低电平输出
工作温度	/	-40~85°C
最大载流能力	/	42A
保护类型	/	TypeA+6mADC
应用范围	/	最大可适配11kW单相或三相
孔径尺寸	/	14.15mm

▶▶ Parameter description

V _{cc}	/	+5V
Output mode	/	High-low output
T _A	/	-40~85°C
I _M	/	42A
Protect Type	/	TypeA+6mADC
Scope of application	/	Adaptable up to 11kW
inner diameter	/	14.15mm

RCMU101SM8 系列

RCMU101SM8 series

✓ 计量、剩余电流一体式设计

RCMU101SM8-6EI-AK

▶▶ 产品说明 / Product description

RCMU101SM8系列剩余电流传感器基于Magtron iFluxgate®技术,核心处理芯片采用自主研发的SoC,集成自检功能和逻辑判断,模块化设计,集成计量与剩余电流检测于一体,产品应用于新国标电动汽车充电设施模式二随车充(IC-CPD)、模式三交流充电桩剩余电流保护。

RCMU101SM8 series residual current sensors are based on Magtron iFluxgate® technology, with the core processing chip utilizing a self-developed SoC. The modular design integrates self-check function and logical judgment. Integrated metering and residual current detection. The products are applied to the new national standard electric vehicle charging facilities mode two with vehicle charging (IC-CPD), mode three AC charging pile residual current protection.

▶▶ 产品特点 / Characteristics

- 高低电平输出 / High-low Output
- 集成自检功能 / Self-check Function
- 方便安装 / Easy Installation
- 单电源5V供电 / Single Power Supply 5V
- 满足B型或A+6mA剩余电流保护要求 / Type B or A+6mA
- 计量、剩余电流一体式设计

▶▶ 剩余电流动作特性满足以下标准 / acc. to standard

- GB/T 18487
- GB/T 41589
- GB/T 40820
- GB/T 22794
- IEC 61851
- IEC 62752
- IEC 62955
- IEC 62423

▶▶ 产品应用 / Applications

- 随车充（模式二充电IC-CPD） / Portable EV charger (Mode 2 IC-CPD)
- 交流充电桩，Wallbox（模式三充电） / AC Charging pile、Wallbox (Mode 3 EV charger)

▶▶ 参数 / parameter

供电电压	/	+5V
输出方式	/	高低电平输出
工作温度	/	-40~85°C
最大载流能力	/	40A
保护类型	/	TypeA+6mADC
应用范围	/	最大可适配7kW单相

▶▶ Parameter description

V _{cc}	/	+5V
Output mode	/	High-low output
T _A	/	-40~85°C
I _M	/	40A
Protect Type	/	TypeA+6mADC
Scope of application	/	Adaptable up to 7kW



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MAGTRON is a high-tech company committed to the research and development of magnetoelectric sensor and integrated circuit chip. Its core products - residual current sensors and current sensors are used in a broad range of applications in Electric Vehicle, Photovoltaic system, EV charger, Energy storage system, etc.

MAGTRON focus on the rapid changing of industrial trends and production of high-quality products. With the independent patent, MAGTRON provides innovative solutions for current detection.

RESIDUAL CURRENT SENSOR

FOR SINGLE-PHASE POWER SUPPLY



RCMU101SM1-2EI Series



RCMU101SM3-6EI Series



RCMU101SM4-2EI Series

FOR THREE-PHASE POWER SUPPLY



RCMU101SN-4P4E Series



RCMU101SN-4P4E-7L Series



RCMU101SN-4P6E Series



RCMU101SN-4P10E Series

ADAPTED BY USERS



RCMU101SN-E-6M Series



RCMU101SN-E-6S Series



RCMU101SN-E-7L Series



RCMU101SN-E-4M-D1 Series



RCMU101SN-E-4S-D1 Series



Power Supply voltage	Ambient operating temperature	Output Mode	According with Standard
+5V	-40°C~85°C	Switch signal Output	IEC61008、IEC62955、 IEC 62752、UL2231-CCID20

Characteristics

✓ TUV DEKRA SGS UL CE TUV SUD Certificated

✓ High reliability

✓ Integrate Self-check Function



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Please contact the sales for detailed specifications

Zhejiang Magtron Intelligent Technology Co., Ltd

RESIDUAL CURRENT SENSOR

■ FOR SINGLE-PHASE POWER SUPPLY



RCMU101SM1 Series

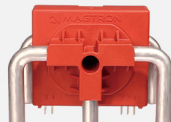


RCMU101SM3 Series

■ FOR THREE-PHASE POWER SUPPLY



RCMU101SN-3P6 Series



RCMU101SN-3P28 Series



RCMU101SN-3P50 Series



RCMU101SN-4P4 Series



RCMU101SN-4P10 Series



RCMU101SN-4P16 Series

■ ADAPTED BY USERS



RCMU101SN Series



RCMU101SM2 Series



RCMU101SN-G-6C

Power Supply voltage	Ambient operating temperature	Measurement range	Accuracy	Linearity error
+5V	-40°C~105°C	300~5000mA	2%@25°C	1%

Characteristics

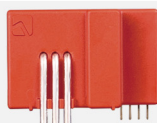
- ✓ CE、UL、Reach、RoHS Certificate
- ✓ Integrate Self-check Function

- ✓ Low hysteresis offset voltage
- ✓ Stable Accuracy

CURRENT SENSOR



MCSA Series



MCSB Series



MCSC Series



MCSC-NP Series

Power Supply voltage	Ambient operating temperature	Measurement range	Accuracy	Linearity error
+5V	-40°C~85°C	6~450A	0.7%	0.1%

Characteristics

- ✓ High Accuracy
- ✓ Low linearity error
- ✓ Low temperature drift
- ✓ Short response time

■ CSM500 SERIES



CSM500 Series

Characteristics

- ✓ Unlimited over-current capability
- ✓ Unipolar +12 V battery power
- ✓ High speed CAN (500 kpbs)
- ✓ Configurable CAN IDsupply

Measurement range	Accuracy	Linearity error
500A	0.8% (100~500A)	0.3%
Power Supply voltage	Ambient operating temperature	
8~16V	-40°C~85°C	