# ❷ 国际A Smart Control Systems - SCS10

## **Description**

E-T-A's SCS (Smart Control Systems) product group includes smart systems, power distribution modules and components with the capability to communicate. These smart devices can be flexibly integrated into existing systems. The capability to communicate provides more flexibility and safety.

The SCS10 is one of the smallest devices of this product family. This CAN mini control unit in a relay design can be flexibly integrated into existing systems via a customer-specific software.

The SCS10 mini control unit is suitable for standard automotive relay sockets according to ISO 7588 (ISO MINI).

This data sheet mainly describes the hardware. The software and the requirements are specified in direct cooperation with our customers. Upon request, we can also support you with programming the devices via a software with an intuitive graphic user interface.

## **Applications**

The SCS10 is suitable for DC 12 V and DC 24 V applications.

### Typical applications:

- Trucks
- Specialty vehicles
- Buses
- Construction machinery and emergency cars
- Agricultural vehicles and forestry equipment

## Typical applications:

- Extension option of an existing CAN system according to ISO 11898, SAE J1939
- Integration of sensors or equipment options, which can be queried or controlled by the central control system
- Voltage monitoring function by using an analogue input
- Can be used in combination with E-T-A power relays to make them CAN capable

## **Benefits**

- Thanks to the customer-specific software, the SCS10 provides fast and reliable workarounds for many problems that can occur during the vehicle's development, reconstruction or customisation.
- The entire system can be planned less complicated and more efficient thanks to switching and measuring functions perfectly adapted to the customer's application. The product is the perfect solution to enable many vehicle options.
- The two power outputs provide all benefits of modern semi-conductor technology. The device's typical life is significantly higher than with mechanical contacts.

## **Product versions**

• SCS10 - 3 0 0 - 2 0 0 - 0 0 0 - 2x5A



## Technical data (25 °C) SCS10-300-200-000-2x5 A

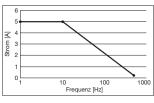
Rated voltage		12 V / 24 V	
Operating voltage		9 V30 V power supply	
Current consumption		< 100 mA operating condition	
Communication		CAN	
Operating temperature		-40 °C85 °C	
Mass		28 g	
Materials			
Blade terminals		5 x DIN 46244 – A6.3 x 0.8 4 x DIN 46244 – A2.8 x 0.8 CuZn 37 F37	
Housing material		PA6GF	
Inputs / C	outputs		
Descrip- tion	Input voltage range	Input or output (I/O)	Features
PIN 15	max. 10 V	T	analogue 12 bit resolution
PIN X	max. 32 V	1	analogue 12 bit resolution
PIN C	max. 10 V	I/O	Input: analogue 12 bit resolution
	max. 16 V		Input: digital
	max. 32 V max. 1 kHz		Input: Frequency measurement
	max. 60 mA		Output: digital • Low side driver • Incl. overload detection

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## Technical data (25 °C) SCS10-300-200-000-2x5 A

## **PIN 87** max. 5 A digital High Side Driver Current measurement max. 500 Hz • High Side Driver • Duty cycle 0...100 % • Frequency characteristic for PWM operation - up to 10 Hz: 5 A - 500 Hz: 0.2 A - 10 - 500 Hz linear function Strom [A] PIN 87a max. 5 A digital • High Side Driver • Current measurement max. 500 Hz

- High Side Driver
- Duty cycle 0...100 %
- Frequency characteristic for PWM operation
  - up to 10 Hz: 5 A
  - 500 Hz: 0.2 A
- 10 500 Hz linear function



## **CAN** interface

PIN H	CAN High	CAN 2.0
PIN L	CAN Low	

Tolerance specification generally for all values:

- Voltage: 5 %
- Current: 10 %
- Frequency: 1 %

Depending on the maximum value and the entire range.

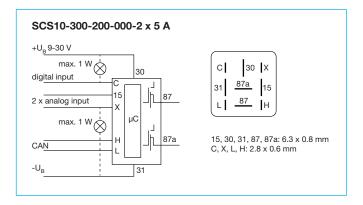
## **Qualifications**

### SCS10-300-200-000-2 x 5 A

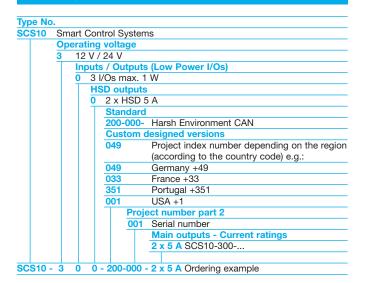
000 10 000 200 000 2 x o //		
Degree of protection	IP52	
Noise immunity	ECE-R10	
E1 number	Upon request	

All information and data given on our products are accurate and reliable to the best of our knowledge, but E-T-A does not accept any responsibility for the use in applications which are not in accordance with the present specification. E-T-A reserves the right to change specifications at any time in the interest of technical improvement. Dimensions are subject to change without notice. Please enquire for the latest dimensional drawing with tolerances if required. All dimensions, data, pictures and descriptions are for information only and are not binding. Amendments, errors and omissions excepted. Ordering codes of the products may differ from their marking.

## Schematic diagram / Pin assignment



## Ordering number code



## **Dimensions**

