

Description

The SCS (Smart Control Systems) product group holds intelligent systems, power distribution and components with communication capabilities. These smart devices can flexibly be integrated into existing structures. The additional communication capabilities provide more flexibility and reliability.

The SCS10 is one of the smallest components of the SCS product group. This CAN mini control unit can flexibly be included in existing systems via a customer-specific software.

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

This data sheet concentrates on the description of the hardware. Software and specification requirements are set up in direct co-operation with our customers. Alternatively, we will shortly be able to offer a programming option for these mini control units by an intuitive, graphical design environment.

Applications

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

Scope of applications:

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

Typical applications:

- Optional extension of an existing CAN system to ISO 11898, SAE J1939 is possible.
- Addition of sensor or other options which can be interrogated and/or controlled via the central control unit.
- Use as voltage monitor by using an analog input.
- Use in combination with E-T-A power relays possible to make them CAN-capable.

Benefits

- Due to the customer-specific software, the SCS10 offers quick and reliable resolution of many problems that can occur during design, retrofit or adjustment of vehicles.
- The switching and measuring functions that have been tailored to the customer's application allow the remaining system to be planned less complex and less costly. The product is the ideal solution to provide many vehicle options.
- Two power outputs offer all advantages of state-of-the-art semi-conductor technology. The typical life of these devices is much longer than with mechanical contacts.

Product versions

- **SCS10 - 3 0 0 - 1 0 0 - 0 0 0 - 2 x 5 A**
- **SCS10 - 3 0 0 - 2 0 0 - 0 0 0 - 2 x 5 A**
- **SCS10 - 3 0 1 - 1 0 0 - 0 0 0 - 2 x 2 A**



Technical data(25 °C) SCS10-300-100-000-2x5 A

Voltage ratings	12 V / 24 V
Operating voltage	9 V ... 30 V
Power consumption	1 mA ... 100 mA
Outputs	2 HSD outputs + CAN bus
Max. output current at 12 V	2 x 5 A
Communication	CAN 2.0B
Operating temperature	-40° C ... 85° C
Mass	>40 g

Materials

Blade terminals	DIN 46244 – A6.3 x 0.8 DIN 46244 – A2.8x0.8 CuZn 37 F37
Housing material	PA6GF
Output	2 semi-conductor outputs HSS

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

Voltage ratings	12 V / 24 V
Operating voltage	9 V ... 30 V
Power consumption	1 mA ... 100 mA
Outputs	2 HSD outputs + harsh environment CAN (hardware)
Max. output current at 12 V	2 x 5 A
Communication	CAN 2.0B
Operating temperature	-40° C ... 85° C
Mass	> 40 g

Materials

Blade terminals	DIN 46244 – A6.3 x 0.8 DIN 46244 – A2.8x0.8 CuZn 37 F37
Housing material	PA6GF
Output	2 semi-conductor outputs HSS

Technical data (25 °C) SCS10-301-100-000- 2x2 A

Voltage ratings	12 V / 24 V
Operating voltage	9 V ... 30 V
Power consumption	1 mA ... 100 mA
Outputs	2 HSD outputs + CAN bus
Max. output current at 12 V	2 x 2 A
Communication	CAN 2.0B
Operating temperature	-40° C ... 85° C
Mass	> 40 g

Materials

Blade terminals	DIN 46244 – A6.3 x 0.8 DIN 46244 – A2.8 x 0.8 CuZn 37 F37
Housing material	PA6GF
Output	2 semi-conductor outputs HSS

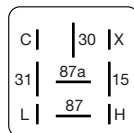
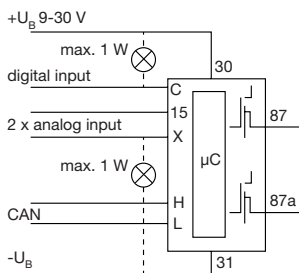
Qualifications

SCS10-300-100-000-2 x 5 A
SCS10-300-200-000-2 x 5 A
SCS10-301-100-000-2 x 2 A

Degree of protection	IP52
Noise immunity	ECE-R10
E1 number	upon request

Schematic diagram / pin assignment

SCS10-300-100-000-2 x 5 A
SCS10-300-200-000-2 x 5 A
SCS10-301-100-000-2 x 2 A



15, 30, 31, 87, 87a: 6.3 x 0.8 mm
C, X, L, H: 2.8 x 0.6 mm

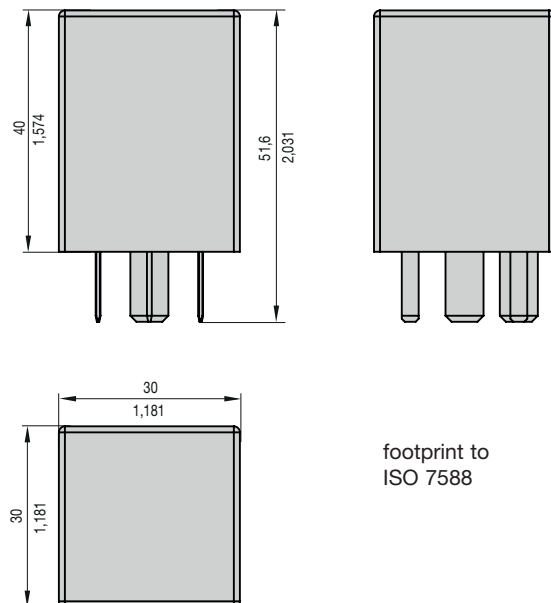
Ordering information

Type no.	SCS10 Smart Control Systems
Operating voltage	3 12 V / 24 V
Inputs/outputs (Low Power I/Os)	0 3 I/Os max. 1 W
HSD outputs	0 2 x HSD 5 A 1 2 x HSD 2 A
Standard	100-000- CAN 2.0 B 200-000- Harsh Environment CAN (only SCS10-300-200-000-2 x 5 A)
Custom designed versions	049 project index number according to region (international area code), e.g. 049 Germany +49 033 France +33 351 Portugal +351 001 USA +1
Project number part 2	001 serial number
Main outputs - current rating	2 x 5 A SCS10-300-... 2 x 2 A SCS10-301-...

SCS10 - 3 0 0-100-000 - 2 x 5 A ordering example

Dimensions

9 PIN



footprint to
ISO 7588

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