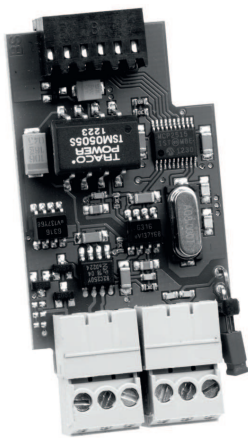


## INSTALLATION AND COMMISSIONING INSTRUCTION

### CAN-Module

#### CAN-Module



**Part.-No.: 680190-9**

**Application:** Factory fitted plug-in card installed in the control module **CM** of an EM B8000, for the integrating of various EMB 8000 into a **CAN-BUS network**.

6 pcs. of terminals 1,5 mm<sup>2</sup> installed and fully wired on 35-mm mounting rail.

**Part.-No.: 680190**

**Application:** Plug-in card for the self installation on customer side in the control module **CM** of an EMB 8000, for the integrating of various EMB 8000 into a **CAN-BUS network**.

Operating voltage:	24 V DC (+/- 20%)
Ambient temperature range:	-5°C ... + 40°C
Housing:	without (assembled PCB)
Dimensions (WxHxD):	<b>20 x 32 x 13 mm</b>
Connections:	Plug-in terminals 6 x 1,0 mm <sup>2</sup> (rigid wire)

#### CAN-Module

Configuration of the functional and performance features requires the software of the control unit's manufacturer.

#### Functions:

- Connector for plugging the network card into the control module **CM**.
- Configuration of the functional and performance features via configuration software EMB 8000.

The **CAN** module serves to connect several control units to one control and triggering unit via **CAN BUS**. A **CAN** module is required for each control unit which is to be connected via **CAN BUS**.

For this application the system must be configured with the system software.



Module is required in every networking control unit.

The system can administer a max. 30 control units which are linked via **CAN-BUS**.



Warranty claims require proper and professional assembly, installation and maintenance in accordance with national regulations and manufacturer's instructions as to SHEV Control Unit. Always disconnect the system from power supply and back-up battery voltage prior to any installation or modification work on the control unit.



Strictly observe the information given in the SHEV Control Unit **EMB 8000** description when mounting the **CAN-Module**.

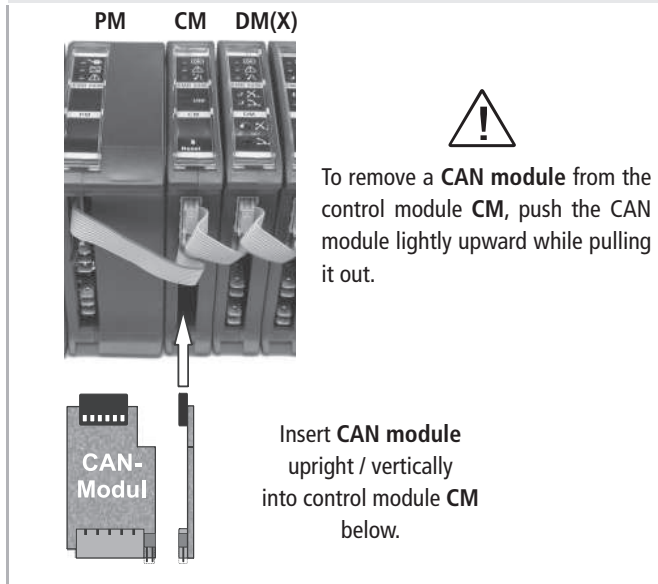
Configuration of the functional and performance features requires the software of the control unit's manufacturer.

Keep this instruction over the lifetime of the control unit.

## CONNECTION: CAN-MODULE WITH CONTROL-MODULE CM

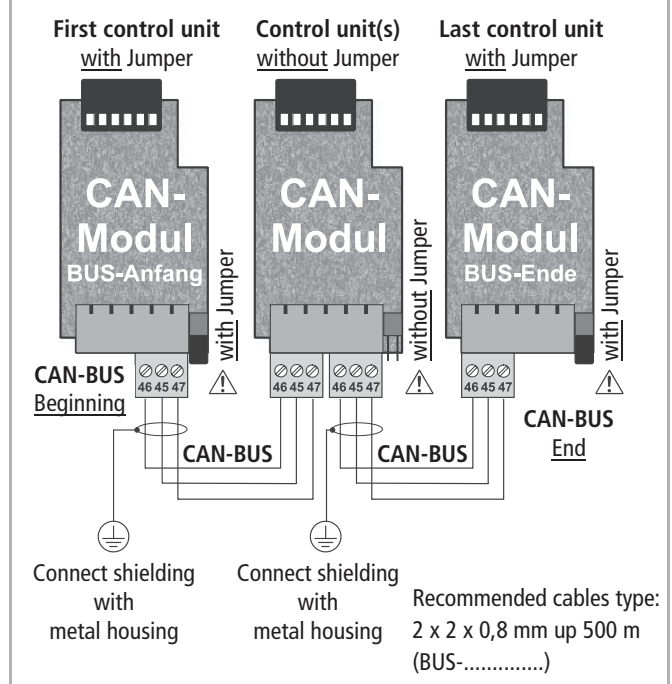
### Connection: CAN module with Control-Module CM

The CAN module must be plugged from below into the Control-Module CM. The fault display of the control module also signals possible problems regarding the CAN BUS network.



To plug the CAN module into the Control-Module CM, temporarily disconnect all connections at the Control-Module and remove the control module from the standard rail. If the CAN-Module must be pulled out, push it lightly in an upward direction while pulling it.

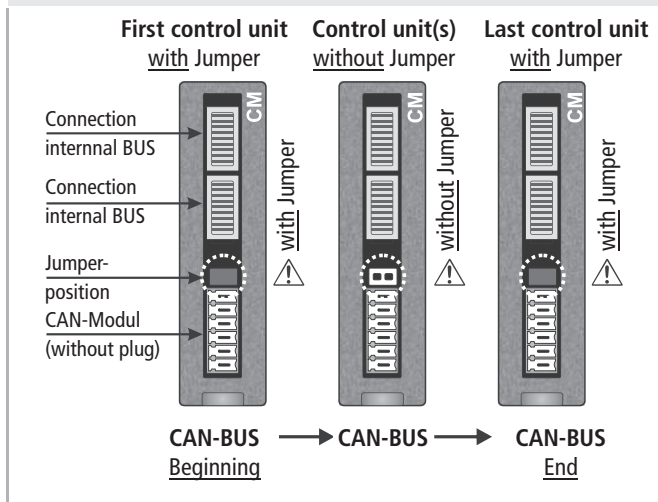
### CAN-Module in more control units



If required, a BUS-compatible fireproof cable must be used.

### Connection: Jumper (terminator) at the CAN-Module

In the first and last control unit connected via the CAN BUS, the jumper (terminator) must be plugged in at the CAN-Module. All other control units lying in between may not contain a jumper.



### Control-Module with connected CAN-Module



- Ensure that the shielding connected unsymmetrically with the metal housing.
- Under no circumstances may the ground of one control unit be connected with the ground of another.
- Beyond that observe the BUS topology.
- No branch lines!

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