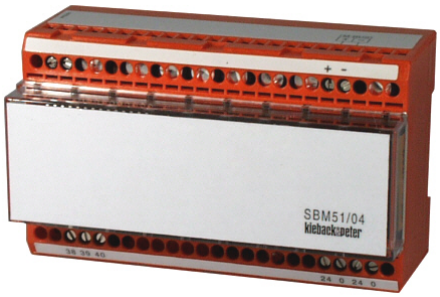
## Device description

**SBM51/04 Control Cabinet Bus Module fpr M-Bus with 32 counters**

### Application

The Control Cabinet Bus moduless SBM51/04 is used for the integration of a maximum of 32 meters from external technical building systems on the M-bus in the DDC3000 system as per DIN EN 1434-3.



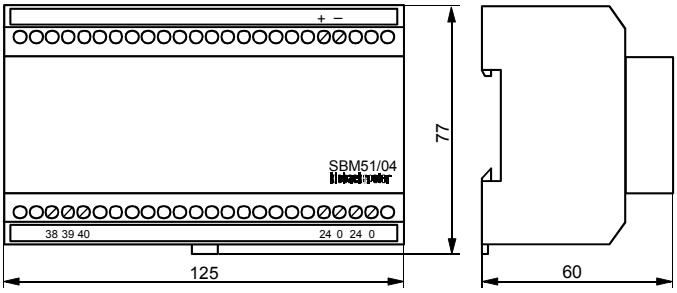

### Type

| | |
|---|---|
| SBM51/04 | Control Cabinet Bus modules es with M-bus input as per DIN EN 1434-3 for maximum 32 meters |

### Technical data

| | | |
|---|---|---|
| Mains | for device | 24 V AC ±10% / 230 mA, 5.4VA |
| | for M-bus of more | additional galvanicly separatelyed mains in case than 8 M-bus participants is required: 24 V AC ±10% / 100 mA, 2,4VA |
| Bus connection | Control Cabinet Bus to the DDC System, maximum 200 m | |
| Interface | M-bus as per DIN EN 1434-3 | |
| Fuse | electronic fuse for mains 24 V AC | |
| Address switch | addressing 01..16 with 2 rotary switches | |
| Displays | 2 LED in the housing for Control Cabinet Bus: | |
| | LED green: | blinking = Control Cabinet Bus-data transmission |
| | LED red: | lit up = Control Cabinet Bus-error |
| | | blinking = incorrect address set |
| | 2 LED in the housing for M-bus: | |
| | LED green: | blinking = M-bus data transmission |
| | LED red: | lit up = M-bus OFF |
| | | blinking = M-bus error |
| Degree of enclosure protection | IP20 | |
| Ambient-conditions | temperature | 0..45°C |
| | humidity | 20..80% rF, not condensing |
| Mounting | switching cabinet mounting o has rail DIN EN 50022 – 35 x 7,5 (see reverse side) | |

### Measurements




### Installation

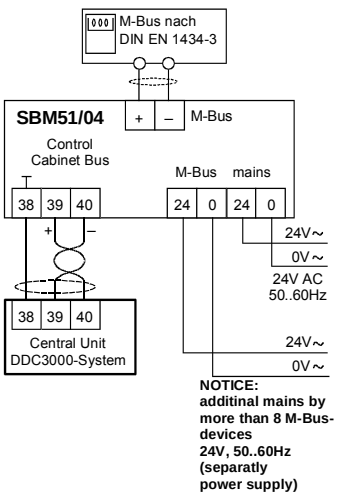
**The electrical installation and the device connection may only be carried out by qualified personnel.**

Warning

The VDE legal provisions and the local regulations should be observed.

- An isolated cable is required for the connection of the Control Cabinet Bus in the DDC3000 system, Cable type at least JY(St)Y 2x2x0,8 Lg.
  Both lines (terminals 39 and 40) must be in the form of twisted pairs.
  The earth connection (terminal 38) should be put on one of the remaining free lines.
  At the end of the Control Cabinet Bus (most distant point from the Central Control Unit, max. 200 m), a terminating resistor ca. 180 Ω must be included on both data lines one time (terminating resistor for the Central Control Unit is included in the accessory pack).
- The M-bus connection must be made with a shielded cable and twisted pair lines (lines are exchangeable). Line diameter at least 0,8 mm. line length maximum 1000 m.
  For more than 8 M-bus participants, an additional power supply 24 V AC is required for the M-bus. The power supply for the M-bus must be galvanicly separatelyed as per DIN EN 1434-3 from all other 24 V power supplies.
  For up to 8 M-bus participants, no additional power supply is required for the M-bus.

Device connection

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**Kieback&Peter GmbH & Co. KG**
Tempelhofer Weg 50
D-12347 Berlin
Telefon 030 / 600 95-0
Telefax 030 / 600 95 164

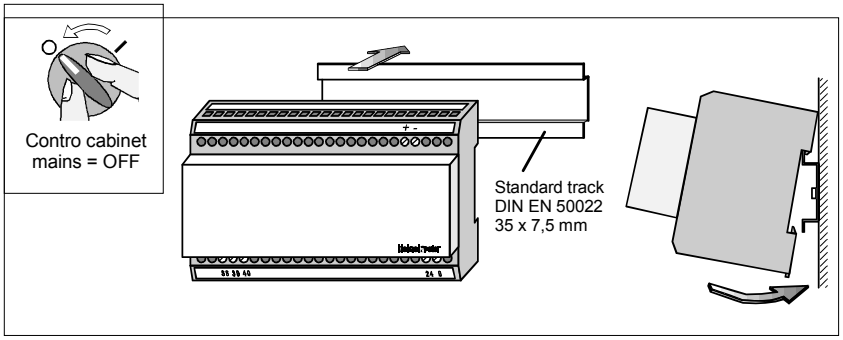
kieback&peter
Technologie für Gebäude-Automation

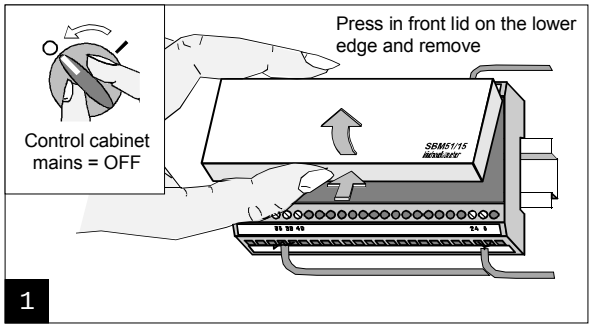
## Mounting

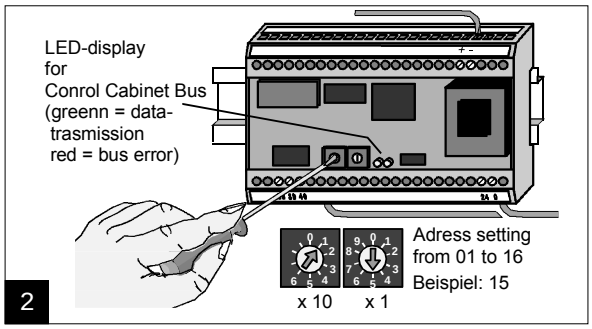
Warning

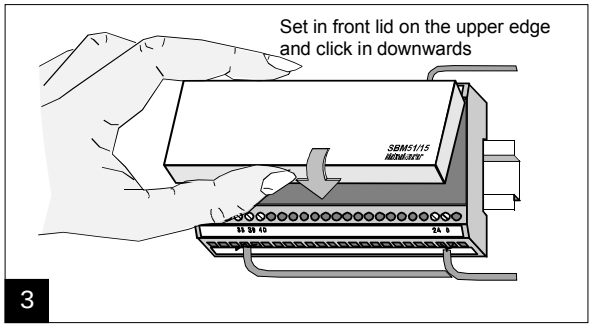
**Mounting and the connection of the device may only be carried out by qualified specialists.**

**The mains may be switched on only after the device setting by the commissioning technician/engineers has been completed.**




Notice

**The parameterization of the Control Cabinet Bus Module SBM51/04 is described in the engineering documentation of the DDC3000.**