

INSTALLATION AND COMMISSIONING INSTRUCTION

Control-Module CM

Control-Module CM



Part.-No.: 680120

Application: Module for the self installation on customer side into an EMB 8000 control unit, for the connecting of automatic smoke detectors and breakglass units.

Operating voltage:	24 V DC
Detector line voltage:	24 V DC
Internal consumption:	20,6 mA
Housing (WxHxD):	100 x 120 x 22,5 mm , ABS, black
Module units:	1 ME
Inputs:	3 detector lines (max. 10 detectors / line) Vent. push button line (max. 10 pcs.)
Outputs:	1 feedback contact (change-over switch, 42 V / 0,5 A)
Display:	Power, fault, alarm
Control elements:	Front push button: Reset
Connections:	Plug-in terminals 1 mm ² (rigid wire), socket and plug with cable for internal BUS

Feature / Equipment: Detector line monitoring, fixing on 35-mm mounting rail, configuration of the functional and performance features which deviates from the standard systems via configuration software EMB 8000.

Control-Module CM

Setting of functions requires the software of the control unit's manufacturer.

Functions:

- Monitors three fire signalling lines for triggering and faults.
- Processes signals from ventilation buttons.
- Has connections for relaying of external signals for operation, fault and alarm.
- Belongs to the basic equipment of a control unit and must be connected directly with the power module **PM** via **BUS** cable.

Take the module into operation:

- Integrated module into the internal **BUS**.
- Position behind Power-Module **PM** / Power-Modul-Extension **PME**.
- Fixing on 35-mm mounting rail.



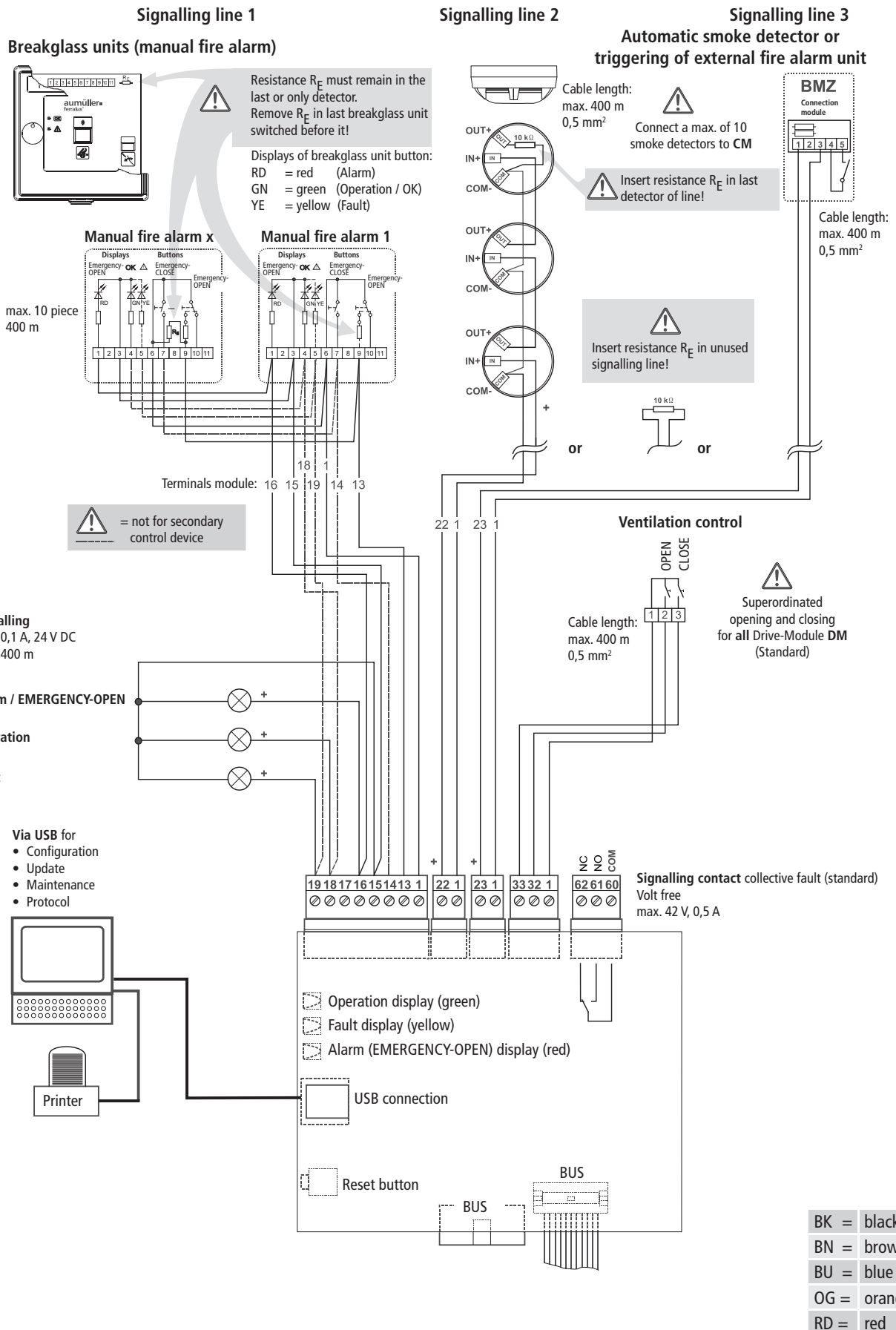
Warranty claims require proper and professional assembly, installation and maintenance in accordance with national regulations and manufacturer's instructions as to SHEV Control Unit. Always disconnect the system from power supply and back-up battery voltage prior to any installation or modification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




Strictly observe the information given in the SHEV Control Unit **EMB 8000** description when mounting the Control-Module **CM**. Setting of functions requires the software of the control unit's manufacturer. Keep this instruction over the lifetime of the control unit.


CONNECTION: CONTROL-MODULE CM


Connection: Control-Module CM (VdS-tested)

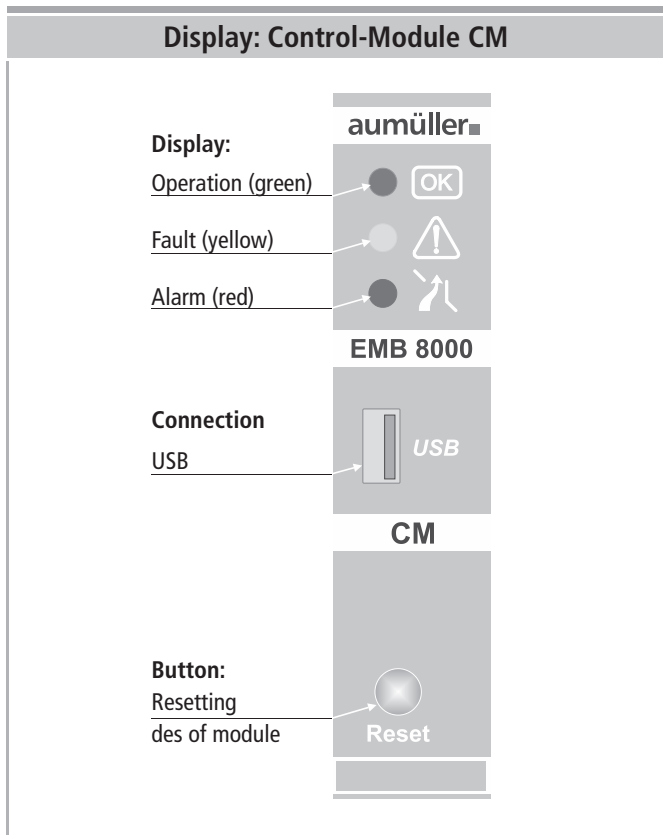


INDICATOR AND CONTROL ELEMENTS

Display the operating state	
Icon	Importance
	Display green: ermanently lit: Correct conditions Blinks: Back-up battery operation (power failure) No signal: Back-up battery operation (power failure)

















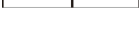








Displays of status: Fault	
Icon	Importance
	Display yellow: Fault

Displays: Triggering of Alarm / EMERGENCY-OPEN	
Icon	Importance
	Display red: Automatic or manual triggering of EMERGENCY-OPEN



TROUBLESHOOTING AND REPAIR

All functions and system components that are important for the SHEVS operation are constantly monitored for faults. A fault indication signals the type of fault and, respectively, possible errors when connecting system components during commissioning of the Control Unit.

Control module CM		
Triggering of alarm (EMERGENCY-OPEN)		Cause / possible solution
 red 		triggered EMERGENCY-OPEN
<small>Displays also valid for external LEDs (breakglass unit)</small>		
 red 		Smoke detector still active after EMERGENCY-CLOSE
<small>Displays also valid for external LEDs (breakglass unit)</small>		
 red 		Manual alarm still on after EMERGENCY-CLOSE
<small>Displays also valid for external LEDs (breakglass unit)</small>		
Fault		Cause / possible solution
 green	no signal	
 yellow		Fault signalling line 1 (automatic detector or ext. fire alarm)
 yellow		Fault signalling line 2 (automatic detector or ext. fire alarm)
 yellow		Fault signalling line 3 (automatic detector or ext. fire alarm)
 yellow		Back-up battery fault
 yellow		System in back-up battery operation
Maintenance information		Cause / possible solution
 yellow		Maintenance of system required
<small>Displays also valid for all connected breakglass units of control module CM</small>		
Fault CAN-BUS		Cause / possible solution
 green		and
 yellow		Number of modules in system doesn't coincide with system configuration (display also signalizes change of original system configuration)
 yellow		CAN participant is (still) missing or system with CAN BUS is being parameterised just now
<small>Displays also valid for external LEDs (breakglass unit)</small>		



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