

## DATA SHEET



### mH-MS

Sixteen-channel scene module  
of the F&Home system

  
F&Home

The mH-MS scene module is a dedicated component of the F&Home system to control scenes configured on the mH-TS12 or mH-TS15 touch panel using the normally open (bell) buttons. The module is mounted in the switchgear where it occupies a field of 5 modules and is supplied with 24 V DC voltage. The buttons that are located throughout the building are directed to the inputs of the module and connected by UTP wires. The control is carried out fully on a 24 V low voltage line, which ensures full safety and allows for any layout of control buttons in the building. The mH-MS module communicates with the system via the CAN line.

### Inputs

Inputs of the mH-MS module are designed to connect both monostable (bell) switches and bistable switches supplied with 24 V safe voltage. Triggering of the input takes place when the switch is closed and +24 V is applied to the input of the module.

The input list for the mH-MS module is shown in the following table.

Level	Inputs	
1	85 - 100	Inputs from 1 to 16
2	213-228	Inputs from 17 to 32

### Power supply

The mH-MS module is supplied with 24 V DC voltage.

### CAN

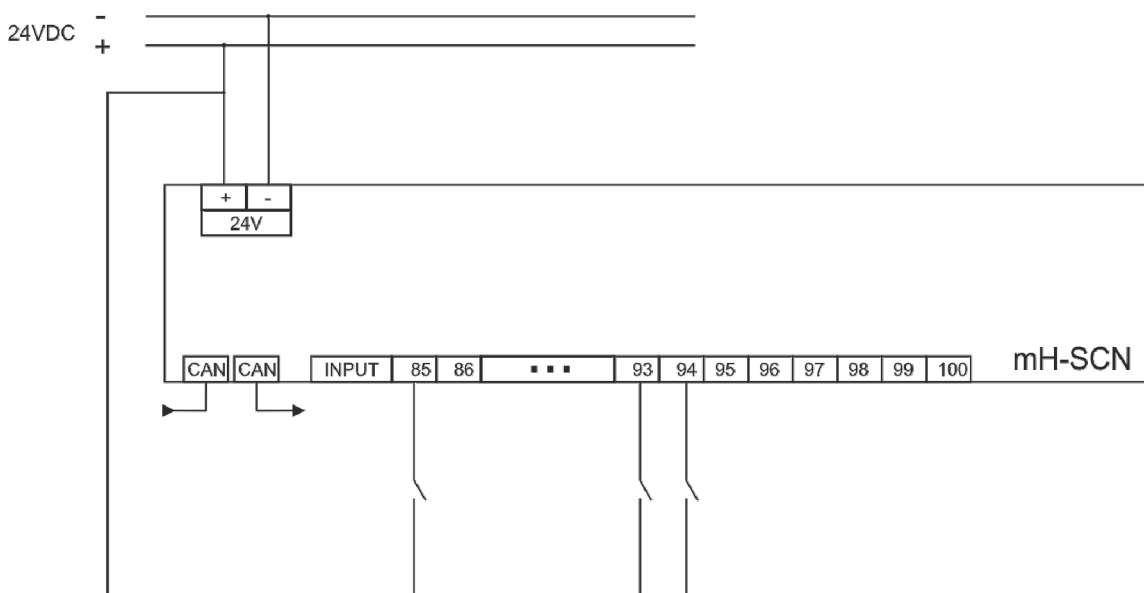
Two RJ-45 sockets on the module front panel are used to connect the CAN communication network cables, which must be connected to adjacent modules using the CAN cables provided with the system.

### Operating principle

Cables from sensors located in the building are routed to the module. When the button is pressed, the scene assigned to a given channel on the touch panel is activated. The system distinguishes between short and long presses, so two different scenes can be assigned to one channel (button). The module does not operate autonomously. Requires a connected touch panel for operation.

### Connection diagram

**WARNING:** The description and numbering in the connection diagram refer to level 1. For the remaining levels, the numbering is shifted according to the relation:  $33 + (N-1) \times 128$ , where N is the level number.



### Operation signaling

The operation of the mH-MS module is indicated by four LEDs on the front of the module. The meaning of the individual controls is as follows:

<b>U</b>	The blinking of the U diode means that the device is connected to the power supply and is working properly. The constantly lighted U diode indicates an error or malfunction of the module.
<b>RX</b>	Indicates that the module is in the process of receiving data through the CAN network.
<b>TX</b>	Indicates that the module is in the process of sending data through the CAN network.

<b>Err</b>	Indicates that there is no communication between the mH-MS module and the host computer (possible power outage/damage to the host computer or damage to the communication cables).
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Technical data table	
Module type	logic - 16 channels
Rated supply voltage	24 V DC
Power supply voltage tolerance	-20%, +10%
Output voltage	24 V
Maximum output current	15 mA
Storage temperature	-20°C to +50°C
Operating temperature	0°C, +45°C
Humidity	<=85% (without condensation or aggressive gases)
Dimensions	87.5 x 65 x 90 mm (5 modules)
Dimensions of the packaging	105 x 104 x 75 mm
Ingress protection	IP20
Operating position	any
Enclosure type	for DIN rail
Net weight	136 g
Gross weight (including packaging)	185 g

**WARNING**

The method of connection is specified in this manual. Installation, connection and adjustment should be carried out by authorized electricians who are familiar with the operating instructions and the functions of the module.

The correct operation is affected by the way the module is transported, stored and used. Installation of the module is not recommended in the following cases: missing components, damage to the module or its deformation.

In case of malfunction, please contact the manufacturer.