Smart Home connection protocol

Connecting the fireplace to the "Smart Home" system using the added module provides remote switching on and off of the fireplace and adjusting the height of the flame. Also the system informs the user about the current status of the device.

In order to connect to the Smart Home server, you need to route twisted-pair cable category 6a-8 (F/UTP, S/UTP, SF/UTP)

The eight wires of the cable are used to send commands and receive the status of the device, the shield is a common, minus bus.

The signal wires are distributed as follows:

Protocol V1: (basic)

Management:
1.   Switching the fireplace on
2.   Switching the fireplace off
3.   Flame higher
4.   Flame lower
(input is activated by applying positive potential +5 ..... +24V)

Control:
5.   Fuel ran out
6.   Fuel overflow
5 + 6. Refueling mode
7.   Operation mode
8.   Standby mode
7 + 8. Warm up/cool down mode
(outputs are open collectors with current up to 50mA and voltage up to 80V, attracted to the common bus, when displaying modes)