

# ZIF MODULE

## Interface for Underfloor Heating

Model ZIF5020



ZIF5020 is a Z-Wave based unit with 10 outputs and 4 inputs for mounting on a standard M36 DIN rail (EN50022).

ZIF5020 is equipped with a Z-Wave radio and adds a variety of functions to your wireless Z-Wave network.

The module must be supplied with 10-24V DC.

The 10 low-side switch outputs can be freely controlled from the Z-Wave network, and used for several purposes, e.g. on/off control of light, control of valve actuators for an underfloor heating system, or control of other home automation systems.

The 4 digital inputs can be connected to potential-free contacts or open-collector outputs to control other Z-Wave based devices such as relay modules, light dimmers, actuators (roller blinds, curtains, garage doors etc)

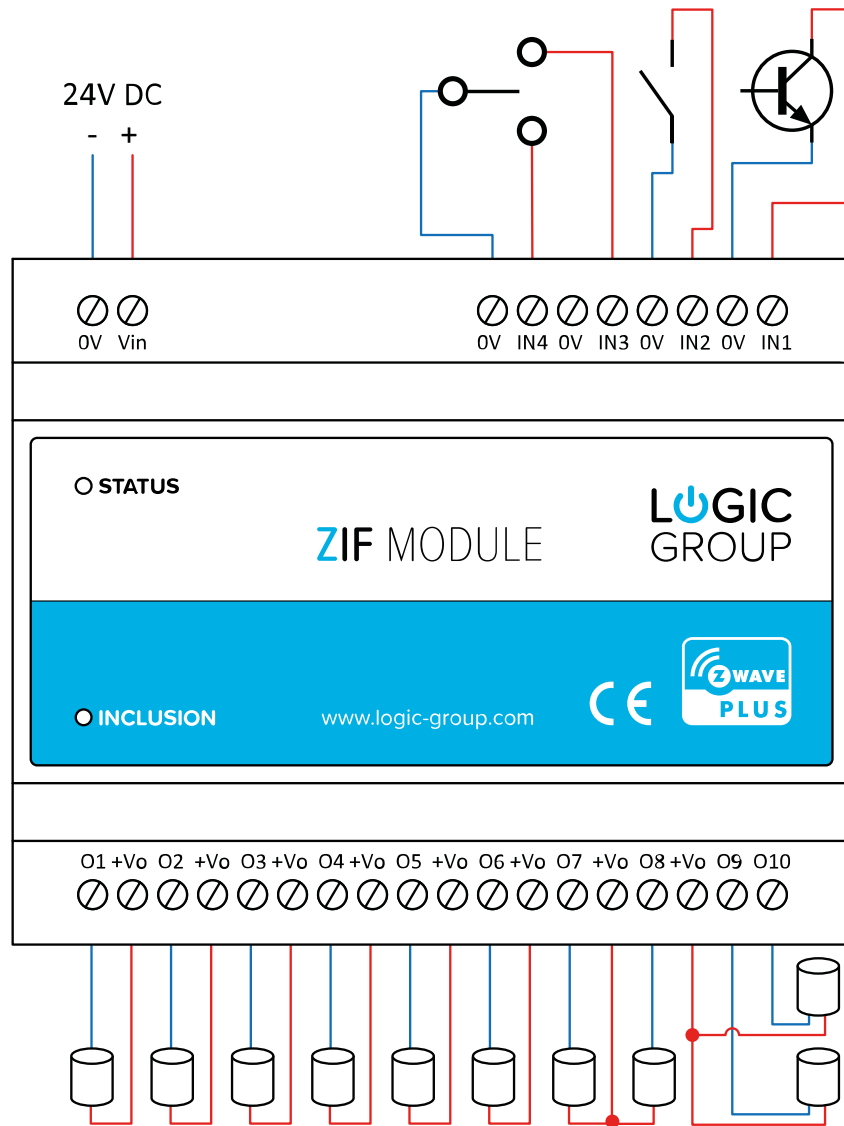
The 4 inputs make it possible to activate predefined scenes in a Z-Wave controller.

Initiation of Z-Wave *add* or *remove* is fulfilled by activation of a push-button through a small hole in the front of the module.

The LED status indicator in the front of the module can be controlled from the Z-Wave network, and the light intensity can be dimmed.

## Functions

- Can be used as a Z-Wave interface for other systems and enables them to be controlled from the Z-Wave network.
- The outputs can be used to control 24V actuators in a hydronic floor heating system, as an easy 10 zone Z-Wave floor heating controller.
- The outputs can be directly connected to transfer relays (e.g. DIN-rail relays) for controlling light, motors, etc., since the outputs have a built-in return diode.
- The outputs are protected against short circuit, overload and overvoltage.
- The inputs can be individually configured to different trigger functions; leading-edge, trailing edge or level triggered.
- Based on the Z-Wave Plus 500 serie-platform.
- Contains *Multi-Channel Command Class* for a better visualisation in a Z-Wave Home Controller, together with a better control and support for other Z-Wave devices.
- Functions as a *routing slave* Z-Wave repeater, for an expanded coverage of the Z-Wave network.
- Possibility of firmware updates Over-The-Air (OTA) via the Z-Wave network.



## Specifications

### Physical

H 85 mm x W 105 mm x D 60 mm  
M36 6-module

### Connections

Power supply: 10 - 24Vdc.  
Screw terminals: 0,2 – 2,5 mm<sup>2</sup>  
Outputs: 18 poles: 10 x low-side switch, 8 x power.  
Inputs: 8 poles: 4 x inputs, 4 x 0V.

### Power Consumption

0.6W (idle) + 0.5W pr. active relay (max. 3.5 W).

### Radio Protocol

Z-Wave®: EU 868.4MHz – 500 Series.

### Network Range

40 m indoor / 80 m outdoor.

### Outputs

Digital low-side switch, max. 60Vdc 1A.

### Inputs

Digital potential-free, max. 10V DC  
Input impedance: 22 kΩ

### Protection Class

IP20

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