zeeGO

USER MANUAL
SWITCH-D8I2
switch relay

v2.8

Switch relay designed to be mounted on a DIN rail, has eight control relays receivers 8x1250VA or 8x1500W, the analyzer current drawn by the receivers 230V~ and is designed for installation in cabinets on DIN rails or enclosures controlled devices.

It is possible wireless connectivity (Zee) or wired (Wee) system. The device allows you to control 8 relays, maintenance equipment 1wire, i2c, communication devices 0..10V (depending on the version outputs / inputs).

The device can be depending on the version supplied from the bus Wee 5V⁼ or 12V⁼, and power meter.

Explanation of symbols

⚡ The flash symbol indicates the danger of electric shock

⚠ The symbol indicates another danger that may occur while still incorrect

Safety rules

⚠ Be sure to read the instruction manual. The device should be used as you intended. In the case of use of the device misuse, or failure to comply with the following instructions, the manufacturer accepts no liability for any damage to property or to the person and the guarantee / warranty expires.

⚡ The device must be connected to single-phase in accordance with applicable standards. This manual defines the connection. Activities relating to the installation and connection should be done by qualified installers electricians after reading this intrukcją.
Disassembling of the device and its damage will void the warranty, and pose a risk of electric shock. Before assembly, make sure that connecting cables are not powered.

Technical data

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Supply voltage	4,8..5,5⁼
Contact load	8x5A/230V~ or 8x5A/30V⁼
Working temperature	-10°C - +35°C
Operating frequency	2.4GHz DSSS, 16 channels ISM
Comply with the Directives	RTTE
Dimensions	90 x 35 x 65 mm (2din)
Energy consumption	<0.100W for power Wee
Radio coverage	~ 30m in the building
	~ 300m in the field
Cable range	~ 500m bus length
Transmission protection	AES 128bit encryption
	PIN for every unit
Weight	92g
0..10V configuration	n0..n1 2xIN
Current measurement	-

⚠ In the case of load other than a resistive should take into account the value of coefficient fi and reduced accordingly received power.

I Automation system

Zeego is a building automation system, in which the device can be connected to the main cable (Wee) or radio (Zee).

Radio equipment to build a network of MESH (grid), where typically each network node can transmit data on, and in case of its failure or shutdown, the network will rebuild automatically.
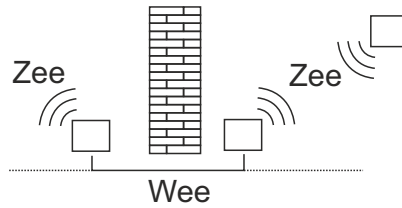
The radio signal is attenuated by any obstruction such as a wall or housing, applying in the case of wires improves call quality, and also eliminates cumbersome loss of communication, through the complete stability of the connection. In a wired network, you can connect wired devices 255.
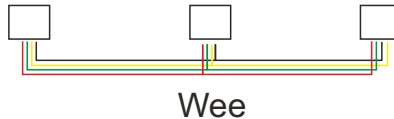
Wee wires are connected in parallel, and each device connected by wire, can build independent radio networks available on 16 channels, each radio network can connect 255 radio devices.

The transmission is bi-directional with confirmations and repeats the message is encrypted with AES with 128 bit key, each device has its own individual PIN number needed to connect with the panel in the full encryption and a unique Serial Number.

Radio transmission takes place in a free 2.4GHz band on one of the 16 channels. The high sensitivity devices provide error-free transmission even in highly disturbed environments.

The device allows you to control eight relays on the basis of user scenarios, and the combination of 4 devices 0-10V (depending on the version of the input / output) inducing scenarios, as well as a number of external sensors on the many available connections.

All these features are available regardless showing the huge potential of the device.

Typically the device is intended for installation in the control cabinet on a rail din, offering additionally:
- A combination of sensors bus 1wire: thermometers
- The combination of interfaces for analogue control 0-10V
- I2c connection of sensors: humidity, pressure, light, temperature, zoom and more

Each of the events can be used to build the appropriate system response.
The installation must have a constant supply Isolator bipolar separation joint that at least 3mm.

II Installation of the unit

⚡ The device should be installed after disconnecting the power phase. Make sure that cables are not under voltage.

⚠ The behavior of the order indicated connections, allows for correct installation.

1. Note of the card PIN and Serial Number (SN) device (Both located on the housing of the device)
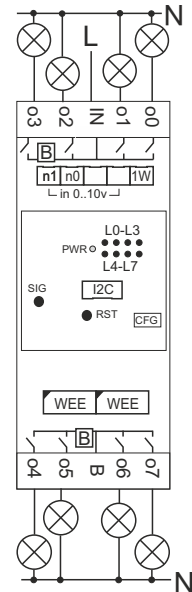2. Connect wires: L, o0..o7, In; by Fig.1

Fig 1. *Diagram of connecting the connector*

Explanations to the scheme:
B - *terminal control current meter*
L - *terminal phase conductor*
o0..o7 - *supply terminals receivers*
SIG - *indicator light status*
PWR - *power light bus*
RST - *service button to reset the device*
1W - *1wire bus connector*
I2C - *bus connection i2c*
n0..n3/ m0..m3 - *connectors 0..10V*
L0..L7 - *indicator lights line state*
Wee - *Wee bus connector*
CFG - *configuration jumper bus voltage Wee*
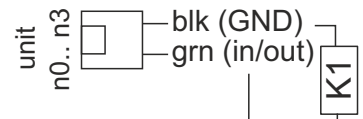
3. Connect the devices 0..10V

Fig.2 *Wiring diagram keys to the connectors 0..10V*

Explanations to the scheme:
n0..n3 / m0..m3 - *connectors 0..10V for coupling modules*
K1..Kx - *coupled modules*
cable colors: grn - green (signal), blk - black (ground)

4. configure jumper CFG bus voltage Wee

5. Put the plug A0..A3 in the connector 0..10V module.
6. Insert the plug from the socket sensor 1Wire 1W, I2C plug into the socket I2C bus Wee Wee.
7. Put module distribution being care ful not to damage the cables, high voltage cables arrange so as not to interfere with the module. This operation requires some practice, it is recommended to perform the installation by trained personnel.
8. Close the switchboard by. structure.

From the moment the device is not connected to the system will operate in emergency mode;

III Launching Device

It is recommended that a system configured by connecting all devices, facilitate system configuration.

1. Plug the control unit of the system, according to the instructions to connect the control unit.
2. Turn on the control unit

⚠️ All the following activities will be carried out using the UI in short called UI.
USER INTERFACE (UI) - is the means of user access to the system (eg. A mobile phone)
3. UI - Select option Discovery

The control device begins to recognize and build a network after the completion of this process will be presented to the relevant report
4. Select the device you want to connect, and when prompted by the system give the PIN for each of them.

⚠️ Since then, the link will no longer work in Safe mode, unless the panel will be available. In the case of loss of communication **EMERGENCY MODE** is activated.

5. UI configure the functions available using the wizard FUNCTIONS.
6. UI configure operational scenarios using the wizard SHARES.

A detailed description of configuring the system. is presented in the manual control system and on the website of the system.

Available output signals 0..10V:
- Read the status of the port n0..n3 / 0..100% (for inputs)
- Snapshot port m0..m3 / 0..100% (for outputs)

Available input signals of sensors:
Depending on the configuration, are available:
The reading, change of reading, the frequency of reporting changes, the size of the reported value changes
This applies measured values: light (lux), close (%), temperature (C), humidity (%), pressure (hPa), others.

Available input signals, output relays:
- Time activity, the current value, the delay
- The current drawn by the load, changing the current received

Available outputs a current meter:
- Current actually drawn
- Last change

IV Operating status, Reset

Operating status is signaled by the indicator light, which the state can be seen looking in the window service SRW.
State service work is signaled by a flashing lamp:
- The light flashes 8 times per second - no connection to the network,
- Flashes 1 time per second - a network connection
After connecting to the network, the light stops blinking, the device is in normal operating mode.

The unit can be restarted by pressing the service button (insert a thin object in the window RST)
- Short press will restart the machine (the LED blinks slowly once and then quickly 2x)
- Pressing long (more than 2 seconds) will cause a reset (erasure of key memory network), will introduce the device in service mode - it will be possible to join the unit to another network.

V Warranty

Utilization

🗑️ Electronic devices are recyclable waste and must not be disposed of in the trash. Products must be disposed of after the operation in accordance with applicable law.

Distribution

Zeegroup Sp. z o.o.

Zeego.pl   Zeego.eu

If you have questions, please contact your local representative.

CE

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