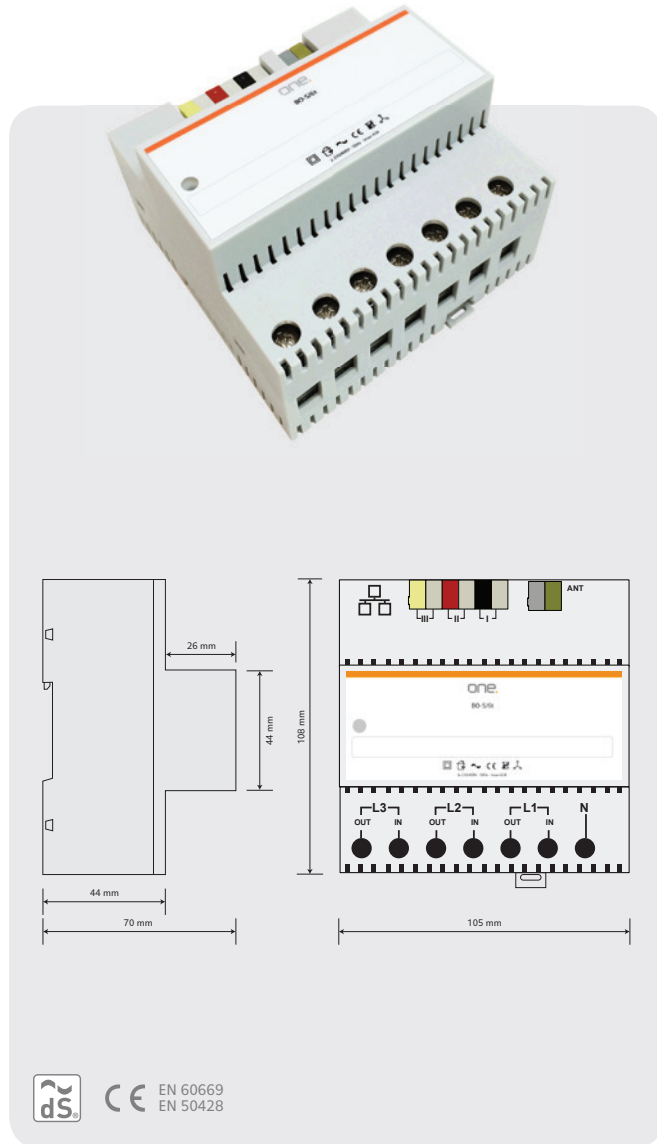


**ENGLISH**  
**INSTALLATION INSTRUCTIONS FOR ELECTRICIANS**



**FUNCTION AND INTENDED USE**

The connectOne server is the controller that connects the home network with the different One Smart Control components. The connectOne server is connected to the smartOne units via the dS485 bus. The server measures the energy use for the entire home (max 63A). It can be connected to single-phase as well as three-phase systems (230V and 400V AC). The server is fitted with three pulse inputs for measuring gas consumption, water use and/or output from PV installations. Finally, the connectOne allows communication with a smartphone, for configuration as well as the operation of the system. In the user manual at [www.onesmartcontrol.com/support](http://www.onesmartcontrol.com/support), you'll find more information about solutions from ONE (such as a selection of the different areas, control of various connection points, and time-dependant programming).



**MORTAL DANGER!**

Touching live electric house wiring (230 V AC) may lead to death or severe burns. Disconnect all power before installing this device and check for the absence of voltage. Prevent third parties from turning ON the voltage.



**IMPORTANT INFORMATION:**

Only qualified personnel are authorised to install and commission the module. Specific national regulations must be followed. The device may only be operated in dry rooms and must not be used directly or indirectly for health or life-saving purposes or for purposes where a device failure could endanger people, animals or property.

**INSTALLATION:**

The connectOne server is to be installed on a DIN rail in the electrical cabinet. To measure the total energy consumption of the home, the connectOne needs to be installed directly behind the main residual-current device (300mA, max 63A). This can be done for both a single-phase installation (L1 and N connections), as well as three-phase AC installations whether they are 230V (L1, L2 and N connections) or 400V (L1, L2, L3 and N connections). The connectOne also has two network connections. The front port (E1) connects with the home network. The rear port (E2) is for the ONE network. The connectOne is connected with the smartOne modules via the dS485 bus. This bus is to be closed on both ends with terminating resistors (provided with the connectOne). The connectOne PE connection is linked to the earth in the electrical cabinet. Finally, a further three counters can be connected (for gas, water and/or a PV installation). Consumption or output are then displayed in the ONE app (iPhone and Android). These counters work via low voltage contacts (light diodes, reed relays, etc.).

**STATUS DISPLAY (LED)**

The LED gives information about the status of the connectOne.

- Red:** ..... the connectOne has power and is starting up.
- Purple:** ..... the Linux operating system has loaded
- Green flashing:** ..... the oneServer application has started and connected to the internet.
- Blue:** ..... the connectOne is updating software to a new version.

**OPERATION**

After the smartphone app has been downloaded, it automatically detects the connectOne. Once a login and password have been entered, it is possible to begin the configuration and operation of the ONE system.

There is a button behind the connectOne LED. It controls the following functions:

- Push for 10 seconds when the application is loaded (the LED is green or flashing green): the connectOne server will restart.
- Pushing for 10 seconds three or four times (with short pauses in between) when the Linux system is loaded (the LED is purple): the server will continue to start without looking for an NTP server. This function can be used when starting up without an internet connection.
- Pushing for 15 seconds when the server has just restarted (LED is red): the server will restart with factory settings (factory reset). Keep pressing until the LED turns purple.

**MALFUNCTION STATUSES**

- Flashing green and red ..... There is a problem with the dS485 bus.
- Flashing orange and red ..... There is a problem with the dS485 bus.

**GUARANTEE**

ONE guarantees the perfect functioning of this product following specifications for a period of 24 months after delivery by ONE. The guarantee is voided by opening the device, modifying the device in any way, or incorrectly installing or configuring the device.

**TECHNICAL INFORMATION**

Nominal power source/frequency .....	230 V AC/50 Hz
Power consumption .....	4.7 W
Protection code (dry spaces) .....	IP20 EN 60529
Permissible environmental temperature (operational) .....	Between 0 °C and 40 °C
Permissible humidity (operational) .....	< 80 % relative humidity, non-condensable.
Measurements .....	10.5 cm wide DIN RAIL module
Connections .....	to be installed in the electrical cabinet
.....	2 x RJ-45 ethernet ports (1GB)
.....	RS485 for digitalSTROM dS485 protocol
.....	3 x 63 A for electrical measurements of the entire home
.....	3 counters
.....	(gas meter, water meter and PV panel)

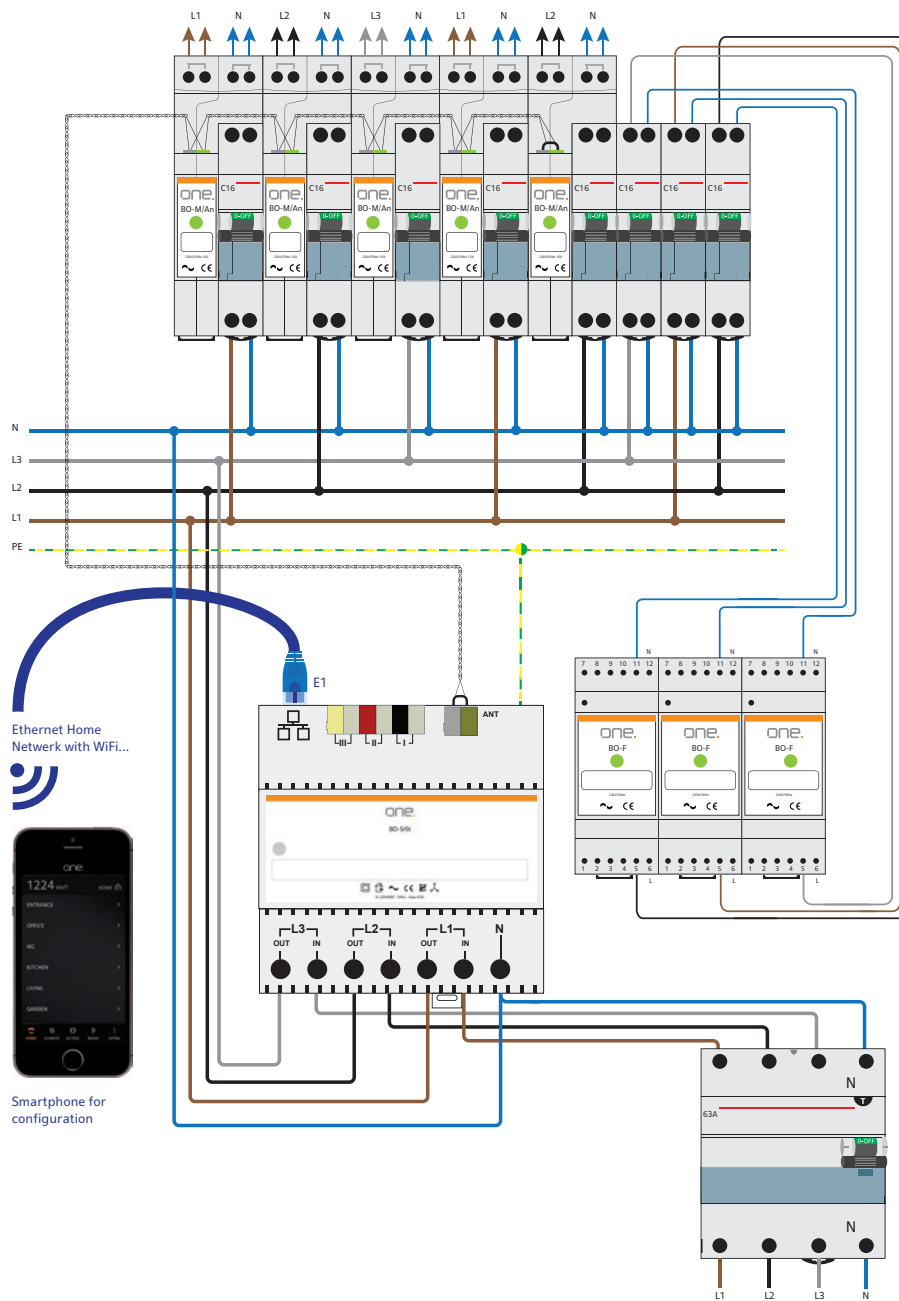


Fig. 1 Overview of electrical cabinet

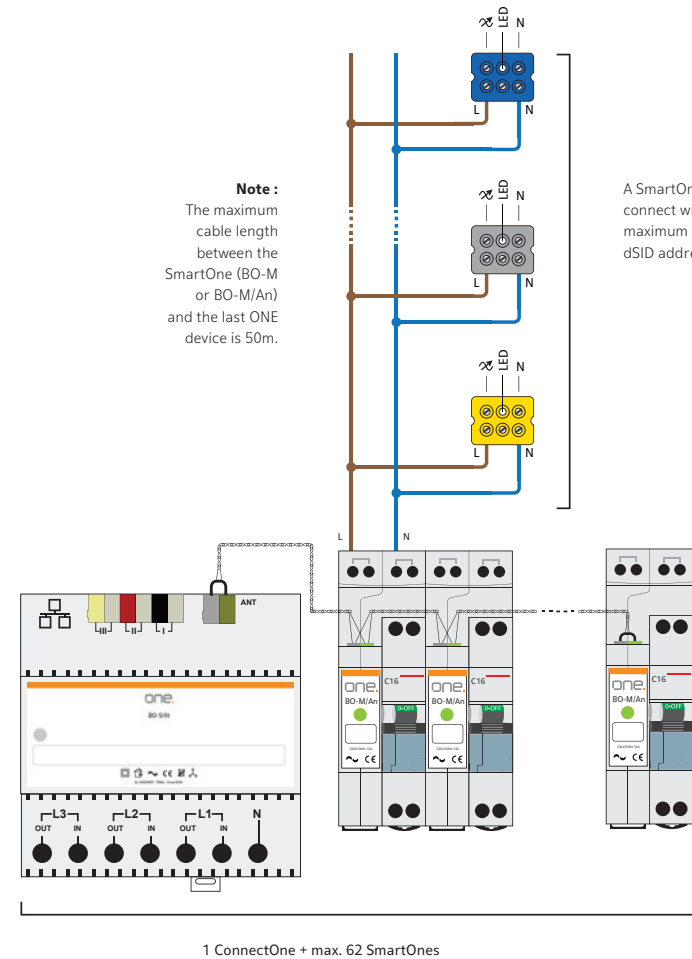


Fig. 2 Maximum number of installed components