

Single-channel ST01IC controller with radio receiver and return channel

Installation and operation manual

1 Safety guidelines

General guidelines

ST-01IC controller is factory configured to guarantee safe installation and operation, provided that all guidelines in this user manual and the safety and accident prevention regulations relevant to the application (e.g. light fitting, power socket) are followed.

Installation and repairs must be carried out by a trained and qualified professional.

Do not modify or change the ST-01IC controller in any way. All warranty repairs must be carried out by the manufacturer. Use genuine spare parts and accessories only.

The operational safety of the ST-01IC controller can only be guaranteed if the device is used as intended. The limit values provided in the specifications must not be exceeded under any circumstances.

Additional safety regulations

Follow the safety and accident prevention regulations relevant to the application (e.g. light fitting, power socket) when installing, commissioning and maintaining the device. In particular, observe the following:

1. Fire safety regulations

2. Accident prevention regulations

General information on hazards and safety measures

The following are the general guidelines for use of INEL controllers with other devices. Follow the guidelines when installing and operating the devices.

Caution - Failure to take precautions may result in damage to the control unit or property.



- Check if all screw connections are secure before installing the controller.

Danger - Failure to take precautions may result in injury or death.



- Follow the relevant safety and accident prevention regulations.
- ST-01IC controller must be installed with all required safety and protection devices.
- For INEL devices with permanent power connection to the controller, in addition to fuse protection, use an isolation switch for safe power supply disconnection (e.g. fuse cut-off switch) for all connections.
- Inspect the power wires and cables regularly for damaged insulation and conductor continuity.
- Turn off the power supply before replacing damaged cables.
- Check if the local voltage supply parameters correspond to the device specification.

Warning - important for the safety of personnel:

- do not let children play with the control devices;
- keep the control devices out of reach of children;
- Provide training and instructions for the users on device operation and related risks. The operator is deemed to have been trained if the employer, administrator or owner of the device have instructed and authorised the operator to operate the device.

2 Waste disposal



Do not dispose of with household waste. Dispose of waste in accordance with the relevant legislation. Households play a key role in the recycling of waste electrical and electronic equipment. Waste sorting, including waste equipment and batteries, guarantees that the equipment is not disposed of with household waste but is handed to a designated collection point for the recycling of electrical and electronic waste.

3 Properties

ST-01IC controller is an InelControl system device used to control light fixtures and power sockets. The devices are controlled via a control unit using a smartphone with an InelControl app installed. System registration and device configuration in the app are simple and intuitive.

The configured devices can be controlled locally over a Wi-Fi network or remotely over the Internet. Current device status is sent via a return channel to the control unit and displayed in the app.

4 Specifications

Operating frequency	868,30 MHz
Radio communication range in open space	200 m
Supply voltage	230 V AC +/- 15 %, 50 Hz
Maximum current consumption	8 mA
Rated operational voltage	250 V AC
Output current-carrying capacity cat. AC1	5 A / 250 V AC
Minimum contact current	10 mA
Permanent contact current-carrying capacity	5 A
Maximum switching power cat. AC1	1250 VA
Minimum switching power	50 mW
Contact resistance	$\leq 100 \Omega$
Switching cycles cat. AC 1 (360 cycles/h)	$> 10^5$
Environmental class to EN 50130-5	II
Operating temperature range	-10°C +55°C
Maximum humidity	93±3%
Dimensions	50 x 50 x 26 mm
Weight	70 g

5 Description

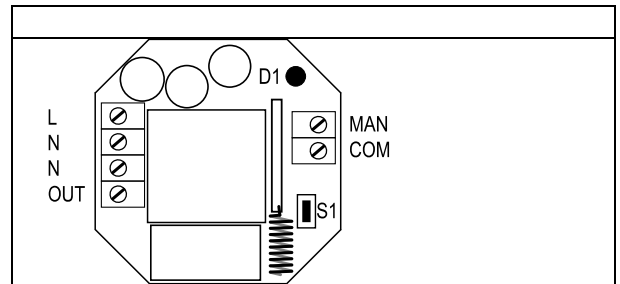


Fig. 1 Controller

Outputs:

L – power supply - Live conductor (brown)

N – power supply - Neutral conductor (blue)

N – output - Neutral conductor to the receiver (blue)

OUT – output - Live conductor to the receiver (brown)

MAN – control input – monostable switch

COM – control input – monostable switch

6 Installation

6.1 Installing the controller in a wall box with power socket

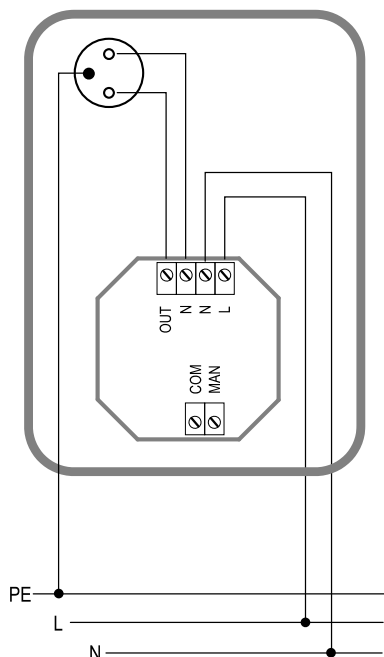


Fig. 2 Controller installation in the wall box

The controller is installed in a 60 mm deep wall box.

- Turn off the power supply in the circuit before connecting the controller.
- Open the wall box to install the controller.
- Connect the mains to the L and N terminals of the controller.
- Connect the power socket to the N and OUT terminals of the controller, connect the socket earth pin to the mains PE conductor (green-yellow).
- Install the controller and the power socket in the wall box.
- Turn on the power supply.
- Add the controller to the InelControl system devices and configure (see "Control unit operation and InelControl system configuration manual")
- Check the level of radio signal from the controller received by the control unit.
In the InelControl app select:
Settings > Devices > Controller_name > Advanced device information. The signal level should be min. -90 dBm. Otherwise, change the position of the controller in the wall box.
- Check the controller operation (see "Control unit operation and InelControl system configuration manual")

6.2 Installing the controller in a wall box with light switch

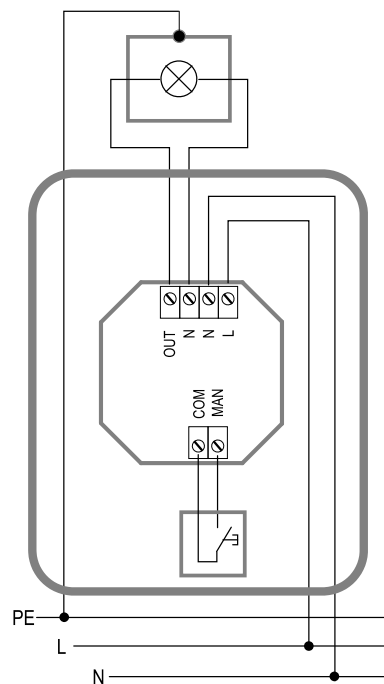


Fig. 3 Controller installation in the wall box with light switch

- Turn off the power supply in the circuit before connecting the controller.
- Open the wall box to install the controller.
- Connect the mains to the L and N terminals of the controller.
- Connect a lighting fixture to the N and OUT terminals of the controller.
- Connect a monostable switch to the COM and MAN control terminals.
- Install the controller and the light switch in the wall box
- Turn on the power supply.
- Add the controller to the InelControl system devices and configure (see "Control unit operation and InelControl system configuration manual")
- Check the level of radio signal from the controller received by the control unit.
In the InelControl app select:
Settings > Devices > Controller_name > Advanced device information. The signal level should be min. -90 dBm. Otherwise, change the position of the controller in the wall box.
- Check the controller operation (see "Control unit operation and InelControl system configuration manual")