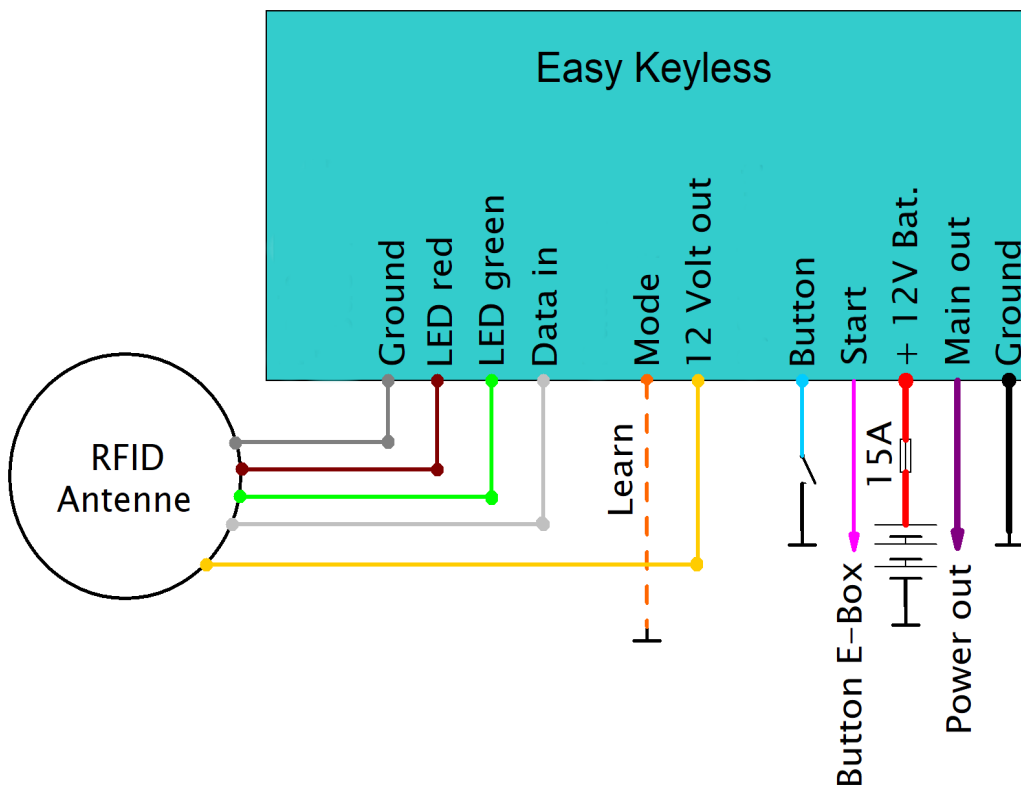


Installation of the Easy Keyless RFID

Don't want instruction manuals? We know that too! Therefore, you only need 3 minutes to read and then about 30 - 40 minutes to install the cables. Promised :-)

In contrast to other solutions on the market, the Easy Keyless RFID does not consume any significant power in standby mode, so that the motorcycle battery is not deeply discharged even after a few months without use. The module is only activated when you press a button. The new Easy Keyless RFID consists of a control module that can be installed "invisibly" and an antenna module what should be installed accessible. Both components are connected to each other via a few cables. This makes installation much easier and ensures functional reliability with minimal disruption" to the overall appearance of the bike.

Connections:



The cables:

Ground (Grey): This cable is connected to the frame or to the negative terminal of the battery.

LED red (Brown): This is the connection to the red part of the implemented antenna LED.

LED green (Green): This cable is connected to the green part of the antenna LED.

Data In (White): This is the data input from the RFID antenna to the main module.

Mode (Orange): This cable is needed for teaching an RFID tag. The description is below.

12 Volt out (Yellow): This is the power supply connection for the RFID antenna.

Button (Blue): Here you can connect a button to activate it. If you use a control box from us that is not set to 2-button mode, then you can use the existing start button on the handlebar to activate the module.

The **Start (Pink) Output** can then be used for the start input of a control box if a box is present. This output simulates the start button for the control box and it is switched to ground if the button what is be connected to the blue cable is pressed.

12V battery (Red): This is where the 12 V from the battery to the Easy Keyless RFID is present. This may be the former wire from the battery to the ignition switch.

Main out (purple): This output supplies the bike with 12 volts for the ignition/light/turn signals, horn, etc.

Ground (Black): This cable is connected to the frame or to the negative terminal of the battery.

Installation and operation:

The antenna module have a 12 mm thread. This means the part can be screwed to the bike.

After you have connected the cables of the control module (please pay attention to good grounding here), you only have to lengthen the 6 wires of the gray cable that comes from the antenna module and reconnect them to the control module:

- Grey to Grey (ground)
- Dark red to brown (LED red)
- Green to green (LED green)
- White to white (Data in from the antenna module)
- Yellow to yellow (12 Volt supply from the main module to the antenna)

You can then shrink the heat shrink tubing provided over the solder joints.

Installation: The antenna module has a 12 mm thread. This means the part can be screwed to the bike. The free area with the LED faces outwards and should not be covered with metal because the range will then be greatly reduced. After you have connected the cables of the control module (please pay attention to good grounding here), you only have to lengthen the 5 wires of the gray cable that comes from the antenna module and reconnect them to the control module: Grey to Grey (ground), brown to brown (LED red), green to green (LED green) White to white (data from antenna to module), yellow to yellow (12 volt power supply for antenna). After it you can shrink the provided heat shrink tube over the solder joints. Learning can be done with various electronic standard tags (125 kHz, EM4100). To do this, the orange cable is connected to ground and the button is pressed. The tag is then held in front of the antenna. Now the LED flashes 2x (key 1) or 3x (key 2). You can teach the module 2 differnt tags. So a lost tag shouldn't be a problem. The maximum range is approximate 2-4 cm depending on the used tag (key). After learning, the orange cable is removed from the ground and insulated. Pressing the button activates the module for 15 seconds. If you hold the electronic key in front of the antenna within this period, the 12 volt output switches on when the module recognizes the key. Otherwise, the module switches off again. The recognition of the (registered) tag is indicated via the status LED in the antenna. Now the start output can be switched by pressing the button again if the button input of a control box is connected here. By briefly pressing the button for less than 1/4 second, the power supply to the bike and the Easy Keyless RFID are switched off again. Otherwise, the starter can be operated at any time as long as the power of the moped is on and the button is pressed for longer than 1/4 second.

Please note that the Easy Keyless RFID may only be installed by appropriately trained service technicians. The manufacturer's liability for any damage or disadvantages suffered by the user due to improper use or installation of the Easy Keyless RFID is hereby expressly excluded.

Please observe the relevant traffic regulations. The Joost company further declares that the Easy Keyless RFID will be compliant with 2014/53/EU, EN50364, EN00330 from the end of February 2024. If you have any further questions, please do not hesitate to contact us at info@elektronikbox.de.

We wish you a lot of fun with the Easy Keyless RFID and always a safe journey!

Technical data:

Dimension module: 50 mm x 42 mm x 12 mm

Antenna: D. 31 x 22 mm, finger sensor 24 x 15 mm

Power consumption in standby mode: Maximum 30 uA

Housing: Black ABS, cast with 2-component casting compound

Input voltage: 9 - 18 volts

Connections: control cable 0.14 mm², power cable 1.5 mm²

Maximum reach to the tag: 2-4 cm, depending on the installation position and the tag

Maximum ambient temperature: 60 degrees Celsius

Permissible current from 12 V connection: 15 Ampere