Creasol Smart Solutions

Smart electronics from Italy since 2001

www.creasol.it

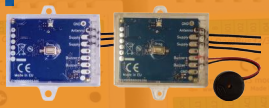
Product Catalog

+ Home/building automation

+ Remote control duplicators

+ Multi-frequency receivers

+ Electric lock door openers



We develop smart electronic devices with reliability and energy efficiency in mind

MADE IN EUROPE

Updated version of this catalog, with links, at www.creasol.it/catalog

Domotica - Modules for building automation systems

Our modules are designed for:

- **High reliability** (wired connection, like KNX®, using the RS485 industrial-grade balanced bus)
- **Very low power consumption** (typ. 15mW standby, +75mW for any additional relay)
- **No battery, no RF pollution**
- Supporting two different protocols of your choice:
  - **DomBus**: proprietary, low latency, working with Domoticz, Home Assistant, NodeRED and any system supporting MQTT
  - **Modbus**: standard protocol, working with almost any system, but not suitable for low latency systems
- Supporting **commands between modules (DCMD)**, to get simple automations working like KNX®, with **zero latency and even when the domotic controller is off**!

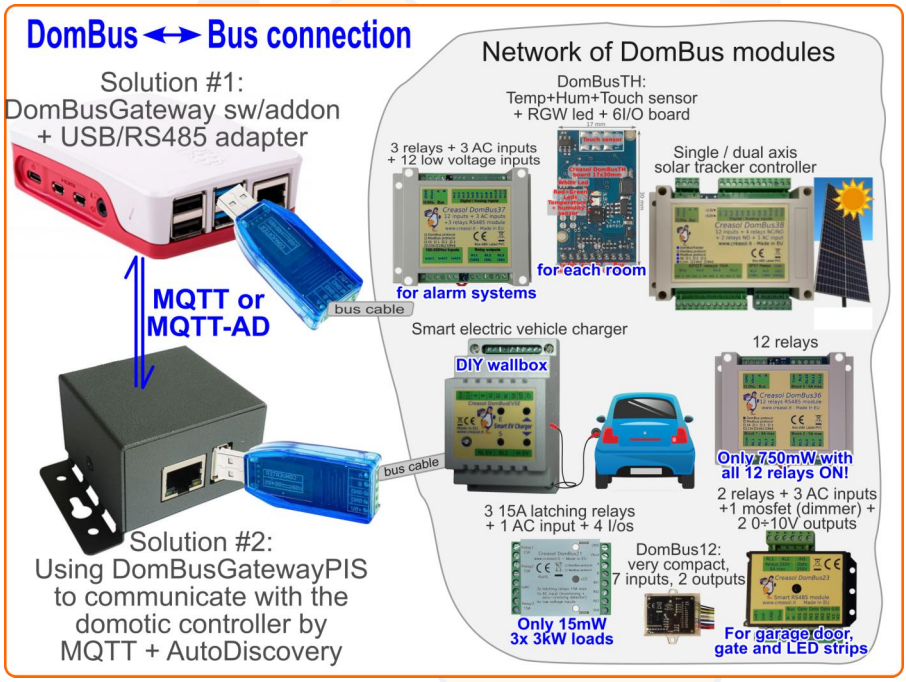
DomBus protocol: supported home automation systems

Domoticz: using the Creasol DomBus plugin, available through github and PPmanager

Home Assistant OS and Supervised: using the DomBusGateway addon

Home Assistant core and container, NodeRED, OpenHAB, ioBroker: using the DomBusGateway (software) or DomBusGatewayPIS (hardware) working as a bridge between the DomBus protocol/buses and MQTT with AutoDiscovery

Other systems supporting MQTT can be used by DomBusGateway software/hardware



More info at www.creasol.it/domotics

DomBus: why a WIRED BUS?? Energy, latency, security, reliability!

Although it may seem anachronistic to have home automation modules connected via a bus instead of wirelessly, **wired bus has several advantages:**

* **The bus also provides power supply » greater efficiency, working during power outage** when using a 12V backup battery, no need to connect 230V to each module
* No internet connection to the modules » **greater security**
* **Low latency, no radio interference, no RF pollution, no RF jamming, no batteries**

The bus uses a standard alarm cable, 4x0.22mm², a **very thin cable that can be routed easily, connected with any bus topology and without special connectors**.

How to connect DomBus modules by wireless or LAN?

Please check www.creasol.it/DomBusRadioLink

DomBus module selection guide

Product	Relays N.o.	Relays N.O.+N.C.	Relays Latching	Open-drain outputs	MOSFETs	Analog outputs 0÷10V	Opto inputs 100÷250V	Opto inputs 9÷40V	Total I/Os	Description
DomBusEVSE	1	0	0	0	0	0	0	0	0	Electric Vehicle charging controller, to make a home-made wallbox
DomBusTracker2	2	0	0	0	0	0	0	0	0	Single/Dual axis sun tracker
DomBusTH	0	0	0	2	0	0	0	0	6	Board with temp+hum+touch sensors 3 LEDs and 6 I/O, suitable for any room
DomBus12	0	0	0	2	0	0	0	0	9	Compact module, for alarm sensors
DomBus21	0	0	3	0	0	0	1	0	4	Compact module with 3x 3kW relays
DomBus23	2	0	0	2*	1	2*	1	2	2	Versatile module for dimmers, gate, ...
DomBus31	6	2	0	0	0	0	0	0	0	Relay module
DomBus32	3	0	0	0	0	0	3	0	5	Versatile module
DomBus33	3	0	0	0	0	0	3	0	5	Light controller
DomBus36	12	0	0	0	0	0	0	0	0	Relay module organized in 3 blocks
DomBus37	3	0	0	0	0	0	3	0	12	Versatile module, for alarm sensors
DomBus38	2	4	0	0	0	0	1	0	12	Versatile module with 6 relays 10A
DomESP1	4	0	0	0	2*	0	0	0	4	ESP8266 board with 1wire, I²C, ...

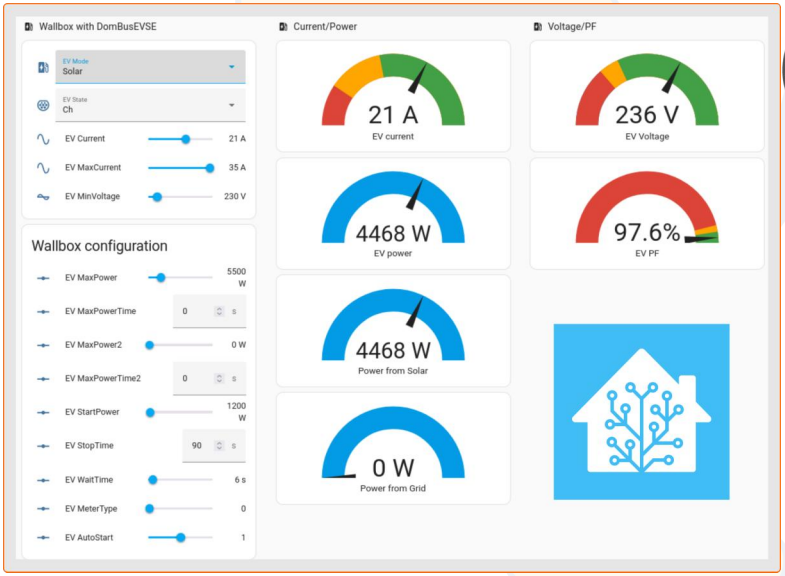
DomBusEVSE - Electric vehicle charging controller

Applications:

- Full feature Mode3 7.3kW (single phase) or 22kW (three phase) **DIY smart wallbox with load balancing**, using only solar power or adding extra power from the grid
- **Very simple and cheap stand-alone AC charging station** for electric vehicles, charging at fixed rate: 25%, 50%, 75%, 100% of max available power, without needing for an home automation system
- **Managed mode**: charging current (power) set by an automation in the home automation system

Features:

- Checking power from the grid, to regulate charging power preventing disconnections, in 2 ways:
  1) using a meter connected directly to the EVSE module;
  2) in case that a meter (or hybrid solar inverter) already exists, connected to the home automation system, it's sufficient a simple automation that sends the actual power from grid to the EVSE module
- Selectable level of power from the grid used for charging: **0 (solar), 25, 50, 75, 100%** of max available power
- Autostart: if enabled, when vehicle is plugged the charging starts immediately at the previous charging level
- Sends to the domotic controller the EV charging **power/energy divided in total, from solar and from grid**
- Sends to the domotic controller the **Power Factor** value, useful for evaluating charging efficiency
- Special features like:
  - **EVMaxCurrent**: dynamically limit the max charging current (power)
  - **EVMinVoltage**: limits charging power to prevent voltage falling below a threshold. Can be used when vehicle SoC is almost full and we want to use the car to prevent **solar inverter overvoltage protection**, by setting EVMinVoltage=248V for example to keep voltage at this value
  - EVMaxPowerTime, EVMaxPower2, EVMaxPower2Time: parameters to increase the max power from the grid, when charging at 100%, toggling between EVMaxPower and EVMaxPower2
- **Low power consumption**: 100mW in standby, 400mW while charging



More info at www.creasol.it/EVSE

DomBusTracker2 - Single/Dual axis sun tracker controller

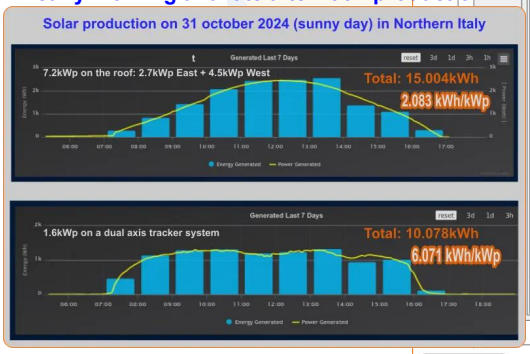
Applications:

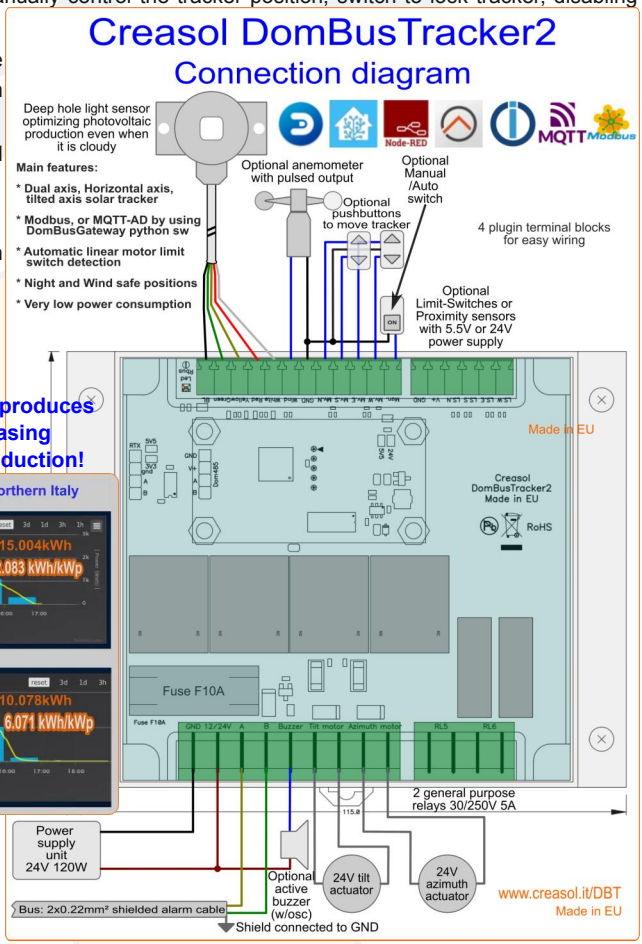
- Single (tilt or horizontal) or Dual axis solar tracker, **stand-alone, with the ability to be monitored and controlled** by a home automation system

Features:

- Deep hole sun light sensor, that **works good even when it's cloudy**
- **Automatically detects** when motor goes OFF by **internal limit switches** (useful for linear actuators)
- Optional external limit switches or proximity sensors
- Wind sensor input, for reed anemomenter: **put tracker in safe position when wind speed** above a configurable threshold; wind speed may be set by the home automation system by writing a register/entity
- Red/green LED to notify status; buzzer output to notify some alarm states
- Optional external Up/Down buttons to manually control the tracker position; switch to lock tracker, disabling auto tracking
- Full control by bus, using a home automation system or a custom program using Modbus protocol
- Configurable night, morning and wind safe positions
- Additional 2 general purpose relays 5A
- **Very low power consumption**, 15mW in the night when motors are OFF
- Very compact size
- Easy wiring, thanks to the **plugin terminal blocks**

In some conditions, dual axis tracker produces 2÷3 times than fixed panels, increasing early morning and late afternoon production!



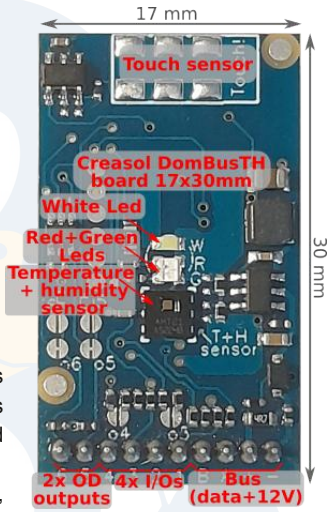


More info at www.creasol.it/DBT

DomBusTH - Temperature/Humidity/Touch sensor board

Applications:

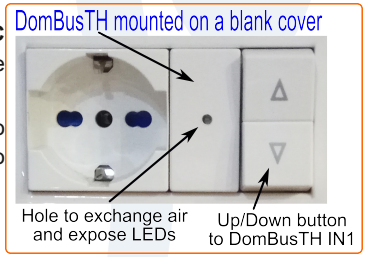
- Indoor **room sensor for temperature and relative humidity**: must be mounted on a blank cover with a 4mm hole in the middle to permit air exchaging (to measure humidity)
- **Alarm sensors** (magnetic contact sensors, PIRs, ...) management with RGW led for status notification
- **Up/Down roller shutter** control, by using the external relay module DomRelay2 to activate the motor
- Multi-function virtual button (touch sensor) with buzzer notification

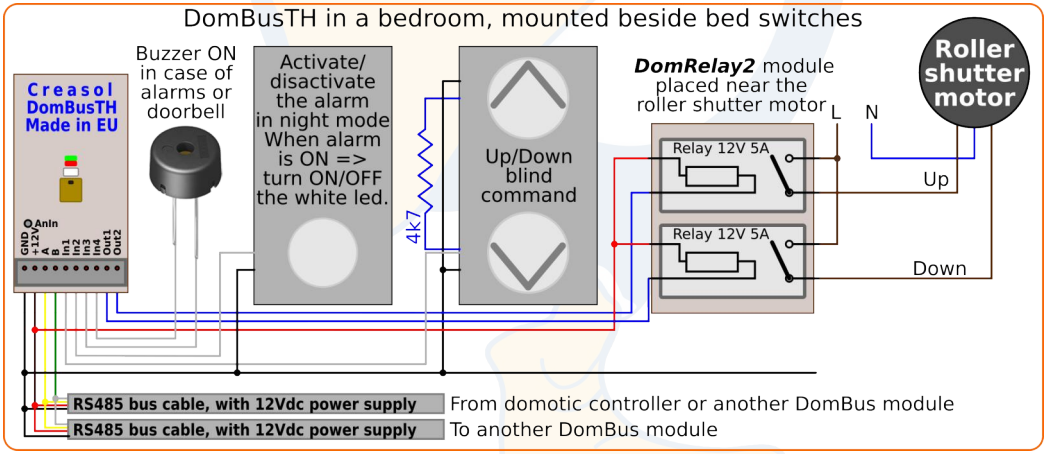


Features:

- Temperature and relative humidity sensor
- **Touch sensor, to get a multi-functions button**: if a piezo buzzer is connected between IN3 and IN4, by touching the upper area (touch) it's heard a beep every second so it's possible to easily select the desired function, for example turn on/off room light when touching for less than 1 second, turn on external lamps when touching for more than 1÷2 seconds, activate alarm when touching for 2÷3 seconds, etc.
- **Red + green leds for notifications**, **white led** that can be used for notifications or as a **night light and emergency light**

- **4 inputs** that can be connected to dry contact **buttons/switches, NTC thermal sensors, counters/meters, alarm sensors** (including double or triple biased), buzzer, ...
- **2 open-drain outputs** (40V 100mA max) that can be connected to **external relays** (DomRelay2 module) and **low power leds** (to illuminate the bedroom in the night, for example)
- **Very low power consumption**, less than 15mW
- Very compact, 17x30mm, easy wiring thanks to the 20cm long wires
- DCMD support

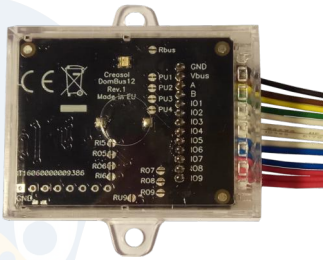




More info at www.creasol.it/DomBusTH

DomBus12 - Compact inputs/outputs module

Applications:

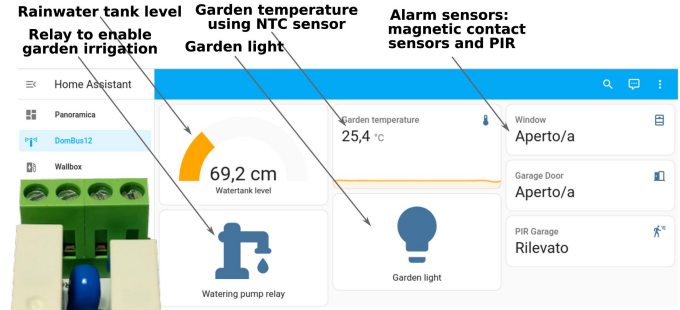


- **Alarm sensors management**: up to 9 sensors, up to 7 double/triple biased alarm sensors
- **Greenhouse**: up to 7 temperature NTC sensors management and 2 outputs (DomRelay2 external relays) to activate fan and heater
- **Climate/boiler management**: 2 outputs (external relays), up to 7 NTC sensors to measure water pipes temperature
- **Tank level measurement**, using ultrasonic distance sensor
- **Meters management**: up to 9 meters/counters with pulsed output

Features:

- IO1÷4 and IO7÷9 configured as inputs, with or without 10k pullup, can be connected to buttons/switches, up/down buttons, counters, alarm sensors, analog voltages, NTC thermal sensors, distance sensors
- IO5÷6 configured as open-drain outputs (to drive relay coils or small power LEDs), but can also be configured as inputs without 10k pullup (for buttons, counters, analog voltage, distance sensors, ...)
- IO7÷9 can also be configured as small current output (only 3mA) and used to drive piezo buzzer or external electronic boards with 3.3V logic levels (for example relay boards).

Several functions performed by DomBus12 with Home Assistant

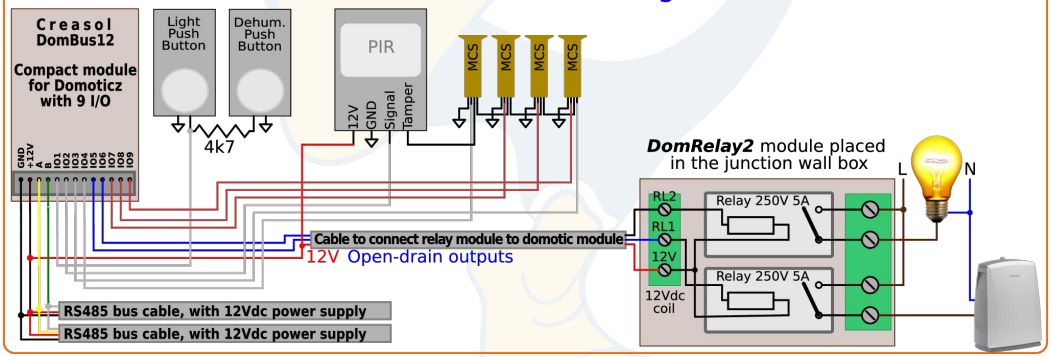


Creasol DomRelay2 module

2 relays pasive board to be connected to open-collector or open-drain outputs module (DomBusTH, DomBus12) Relays have 12V coils with free-wheeling diodes. Relay contacts are protected from overvoltage and overcurrent

- **Very low power consumption**, less than 15mW
- Very compact, 41x31x11mm, easy wiring thanks to the 20cm long wires already available
- DCMD commands support (on DomBus firmware)

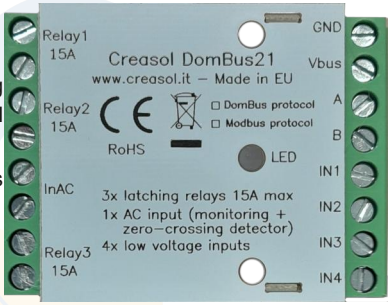
Connect 2 loads, 2 buttons, 1 PIR and 4 magnetic contact sensors



More info at www.creasol.it/DomBus12

DomBus21 - 3 relays 15A, 1 AC input, 4 low voltage inputs

Applications:

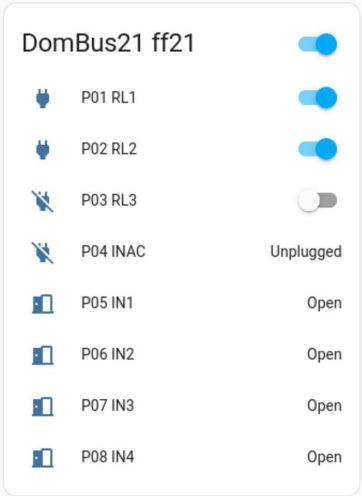


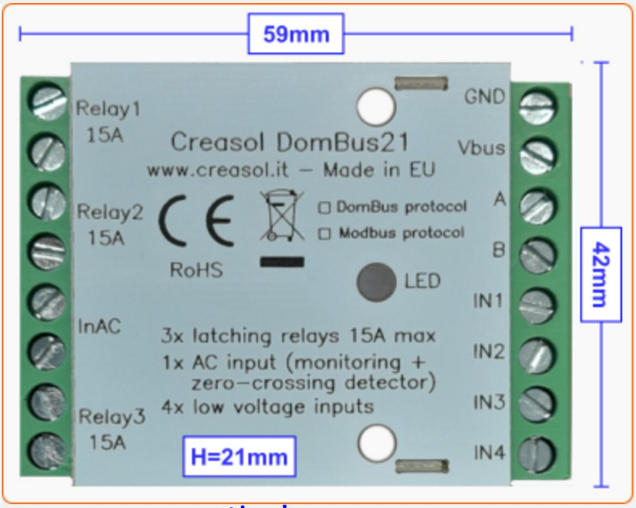
- **High power loads control**: can enable loads up to 3kW (15A)
- **Disabling loads that remains off for long periods**, reducing stand-by energy consumption, like **heat pumps, boilers, gate and garage door** (it's good to disable when alarm is on)
- **Battery powered device controlling external loads**: it uses latching relays, that consume nothing when on or off
- **230V presence detection**
- **Meters management**: up to 4 meters/counters with pulsed output

Features:

- **3x 15A SPST relays with latching coil** (zero consumption)
- **1x optoisolated AC input**, 100-250V, that is used for two functions: **zero-crossing detector + voltage presence**
- **4x configurable low voltage inputs, analog or digital**: each input, using GND as common voltage, can be configured as pushbutton, twinbutton (UP/DOWN buttons that uses a single input), alarm sensor (magnetic, PIR, double-biased and triple-biased balanced alarm sensors), NTC 10k thermal sensor, counter / meter with pulsed output.
- **Very very low power consumption**: 15mW, even with relays on!
- Very compact, 59x42x21mm
- DCMD commands support (on DomBus firmware)

Be smart, be green reducing energy consumption





3 latching relays, 15A, zero power consumption!
The best solution to enable/disable loads that remain active for long time, such as heat pump, boiler, gate/garage door, and that can be disabled to avoid stand-by energy consumption.

More info at www.creasol.it/DomBus21

DomBus23 - 2 relays, 1 mosfet, 2 0÷10V out, 2 I/O, 3 AC in

Applications:

- **Led strip dimmer**, 12/24V, 10A max
- **2 external dimmers management** by using the 0÷10V analog outputs
- **Gate or garage door management**: relays and optoisolated inputs to know the gate status. **Open the gate or garage door from the smartphone**
- Converting a **door bell in a smart door bell**

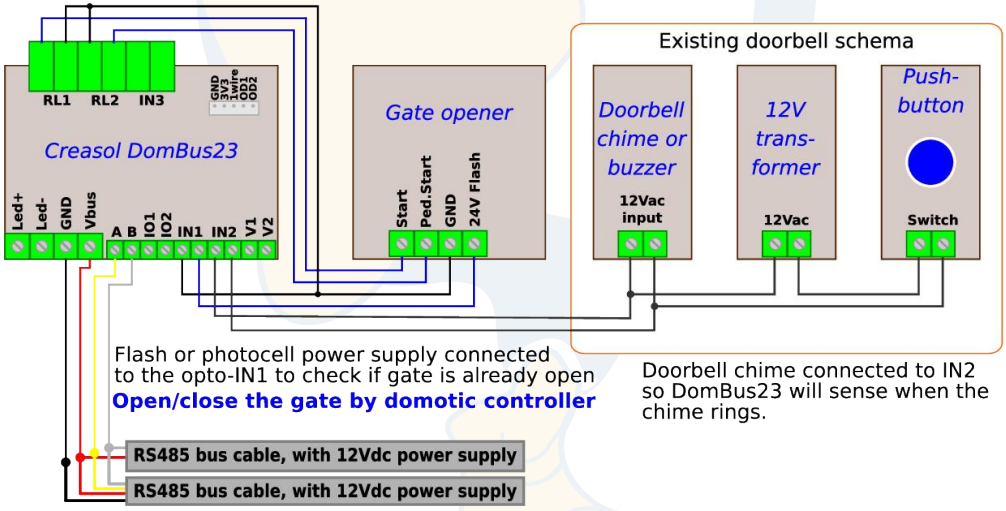
Features:

- **2x relay** outputs, 250Vac 5A
- **1x mosfet output, 30V 10A max**, with both digital and dimmer functions
- **2x 0-10V analog outputs**: they can also be configured as open-drain output (available by the optional cable)
- **2x I/O lines**, each one can be configured as digital input, analog input, twinbutton, counter (for energy gas or water meters), alarm sensor (magnetic, PIR, double-biased and triple-biased balanced alarm sensors), digital output, blind, dimmer (to be connected to external mosfet) and buzzer.
- **2x low voltage AC/DC opto-isolated inputs**, 9÷40V
- **1x 230V AC opto-isolated input** for 230V presence and blackout detection
- Compact size: 74x72x24mm including terminal blocks
- DCMD commands support (on DomBus firmware)

Using *DomBus23* to interface the gate/garage door opener and doorbell

When somebody **push the doorbell** button, DomBus23 notified the home automation system that can take **a picture from IPCam and send it to the smartphone** (**Telegram group?**). Then from the smartphone it's possible to **open the gate** and **monitor the gate status**

Relay outputs used to activate the gate commands *start* and *pedestrian start* (or *open* and *close* commands)

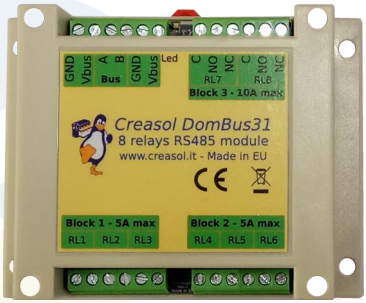


More info at www.creasol.it/DomBus23

DomBus31 - 6 relays SPST 5A + 2 relays SPDT 10A

Applications:

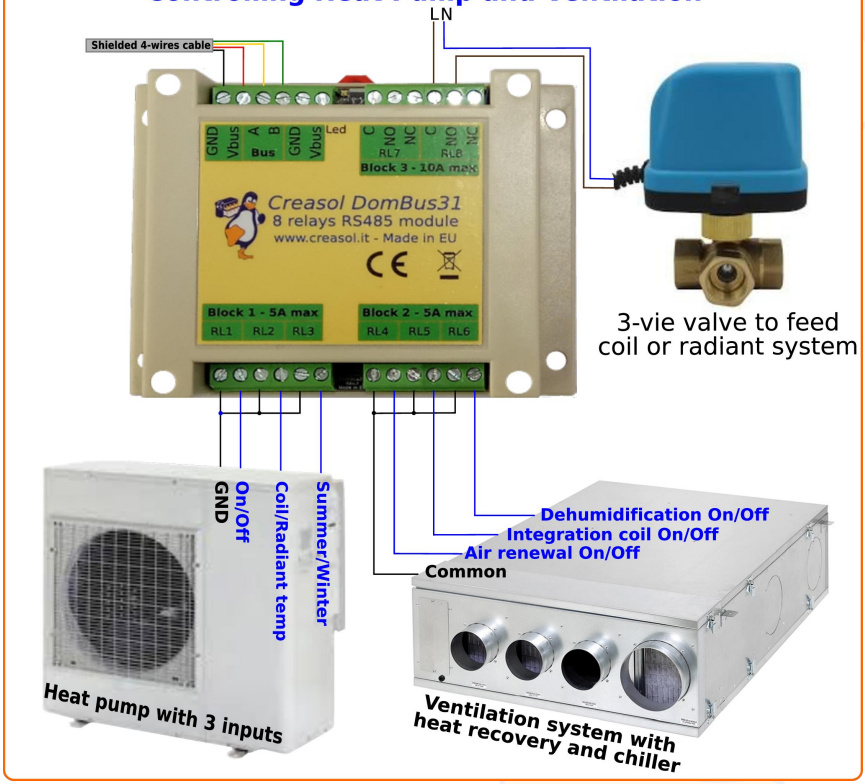
- Management of **devices with many digital inputs** (like heatpump, ventilation system, ...)
- **Zone valves activation** in heating/cooling systems
- **Lights and sockets** activation



Features:

- **6x relay** outputs, 250Vac **5A, with NO contact**
- **2x relay** outputs, 250Vac **10A, with NO and NC contacts**
- Relays are divided in 3 blocks, respecting creepage distance between blocks
- Overvoltage and inrush current protection
- DIN rail, low profile, 115x90x40mm
- **Low power: 15mW in standby, 600mW with all 8 relays on**
- DCMD commands support (on DomBus firmware)

Controlling Heat Pump and Ventilation



More info at www.creasol.it/DomBus31

DomBus32 - DomBus33 - 3 relays, 3 AC inputs, 5 I/Os

Applications:

- **Lights and loads** with energy meters with pulsed output connected to IO1÷5 to keep account of power and energy
- **230V presence and blackout detection**

Features:

- **3x relay** outputs, 250Vac **5A, with NO contact**
- **3x AC inputs** for 100÷250V detection (power outage, and check that critical appliances are really supplied, like fridge and heatpump)
- Relay outputs and AC inputs share the same common terminal block (neutral or line) for **easy and quick wiring**
- **5x configurable I/O** that can be connected to pushbuttons/switches, counters/meters, NTC thermal sensors,
- DIN rail 53x89x65mm
- **Low power: 15mW in standby, 150mW with all relays on**
- DCMD commands support (on DomBus firmware)

DomBus33 vs DomBus32

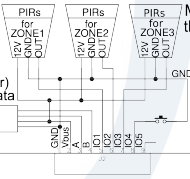
Same hardware but different firmware: **DomBus33 is designed for light systems using step relays**, supporting up to 3 lights. For each light **it shows the light status: clicking on light status it sends a short pulse to the existing step relay to turn it on or off** (toggle).
This is the right way to domotize an existing light system using pushbuttons.
Moreover, new pushbuttons or PIRs can be connected to the input ports to make get more new automations.

How to reliably domotize an existing light system with Creasol DomBus33

IO1..5 can be connected, for example, to
* PIRs to automatically turn ON a light with a configurable timer (using DCMD, it will work even without programming scenes or automations in the domotic controller
* switches (connected to GND) to control each light
* one switch to toggle ON/OFF all lights

Bus connected to the domotic controller and other DomBus modules

Bus cable (4x0.22mm, shielded cable, 5mm diameter)
2 wires for 13.6V power supply, 2 wires for RS485 data

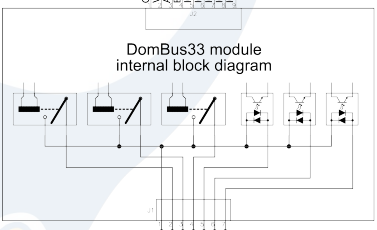


Motion detectors, that activate the light for each zone for 120s (or different time) when motion is detected

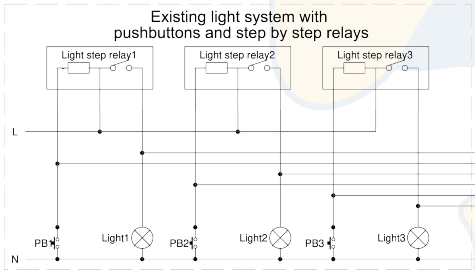
Example: pushbutton switch that turns all lights ON with a short pulse, or OFF with a long pulse

Connecting both contact and coil of each step-by-step relay to the module, it **gets the status ON/OFF of each light** and is able to **switch light ON/OFF** by a short pulse on the relay coil.

DomBus33 module internal block diagram



Existing light system with pushbuttons and step by step relays



Line and Neutral can be reversed, so Line can be used instead of Neutral.
Do not connect light zones that are protected by different RCCBs!

More info at www.creasol.it/DomBus33

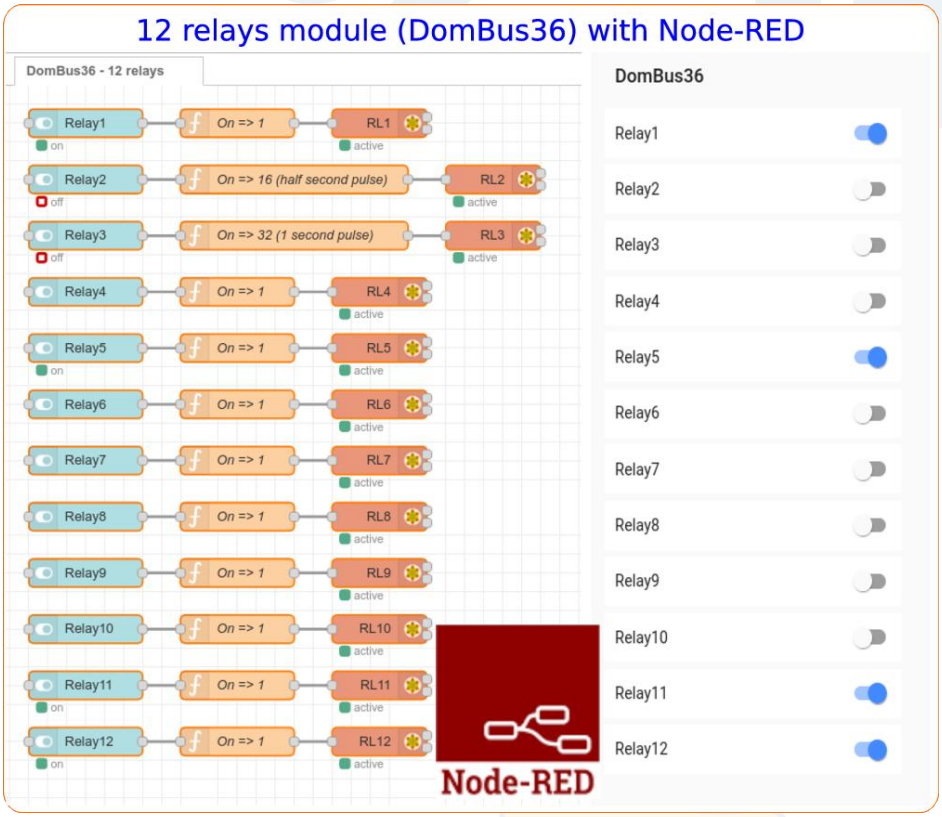
DomBus36 - 12 relays SPST 5A in 3 blocks with common

Applications:

- Management of **devices with many digital inputs** (like heatpump, ventilation system, ...)
- **Zone valves activation** in heating/cooling systems
- **Lights and sockets** activation
- Digital/analog line multiplexing
- X/Y actuator matrix or bank

Features:

- **12x relay** outputs, 250Vac **5A, with NO contact**
- Relays are divided in 3 blocks, respecting creepage distance between blocks
- Common for each block (line, neutral, GND, +V) for easy and quick wiring
- Overvoltage and inrush current protection
- DIN rail, low profile, 115x90x40mm
- **Low power: 15mW in standby, 750mW with all relays on**
- DCMD commands support (on DomBus firmware)



More info at www.creasol.it/DomBus36

DomBus37 - 12 inputs, 3 AC inputs, 3 relays

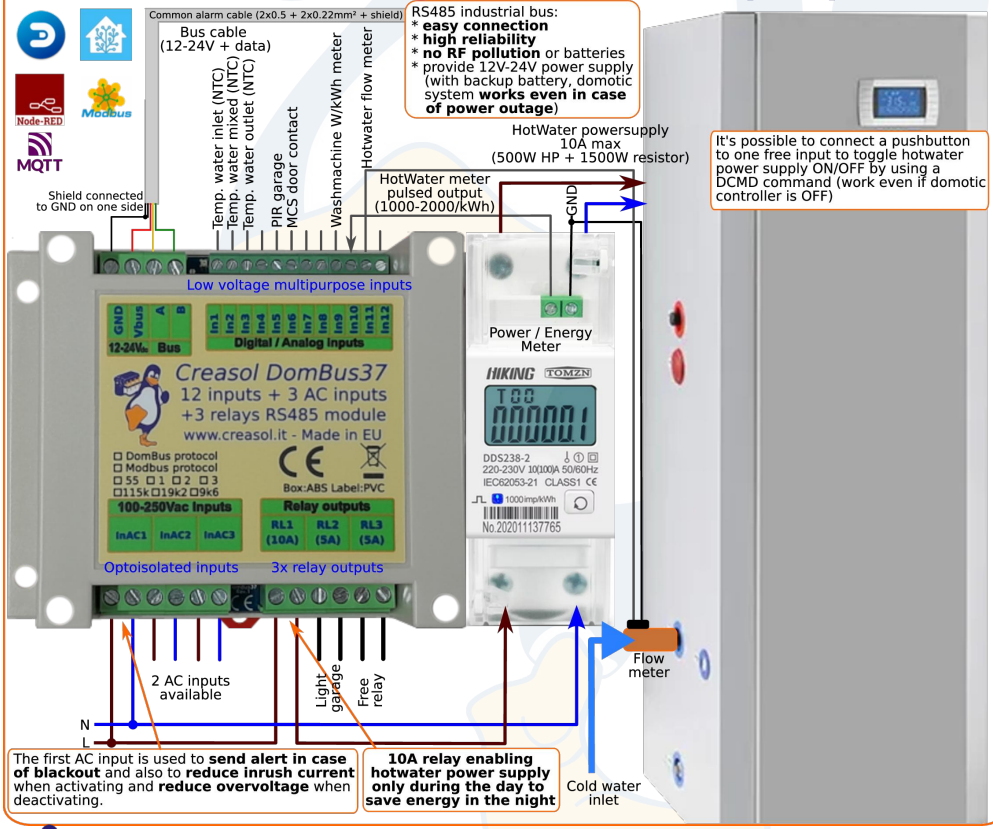
Applications:

- **Alarm system**: connect up to 12 alarm sensors, 3 sirens and monitor 3x 230V to detect power outage
- **Green house**: monitor up to 12 NTC temperature sensors, command heaters and fans.
- **Monitoring**: monitors up to 12 voltages and up to 12 meters (energy, gas, water) with pulsed output
- **Boiler and heatpump system**: monitors water flow (meter) and temperature (NTC), turn on/off boiler, resistors, ...

Features:

- **12x configurable inputs** (pushbuttons/switches, meters/counters, analog inputs, NTC thermal sensors, alarm sensors including double and triple biased)
- **3x AC optoisolated inputs** (230V presence, power outage)
- **3x relays with NO contact**: 1x 10A and 2x 5A, DCMD commands support (on DomBus firmware)
- DIN rail, low profile, 115x90x40mm, **Low power: 15mW in standby, 180mW with all relays on**

DomBus37 controlling a hotwater heatpump boiler



More info at www.creasol.it/DomBus37

DomBus38 - 12 inputs, 1 AC input, 6 relays

Applications:

- **Alarm system**: connect up to 12 alarm sensors, 4 sirens with NC or NO contact, monitoring 230V to detect power outage
- **Green house**: monitor up to 12 NTC temperature sensors, command heaters and fans.
- **Monitoring**: monitors up to 12 voltages and up to 12 meters (energy, gas, water) with pulsed output
- **Boiler and heatpump system**: monitors water flow (meter) and temperature (NTC), turn on/off boiler, resistors, ...

Features:

- **10x configurable inputs** with 10k pullup that can be enabled by PCB jumper (pushbuttons/switches, meters/counters, analog inputs, NTC thermal sensors, alarm sensors including double and triple biased)
- **2x configurable inputs** with MCU internal pullup (pushbuttons/switches, meters/counters, analog inputs, alarm sensors with ON/OFF output)
- **1x AC optoisolated input** (230V presence, power outage)
- **4x relays with NO and NC contact**, 10A 250V
- **2x relays with NO contact**, 10A 250V
- DCMD commands support (on DomBus firmware)
- DIN rail, low profile, 145x90x40mm, **Low power: 15mW in standby, 805mW with all relays on**

How to connect DomBus modules by wire, LAN, RF, WiFi

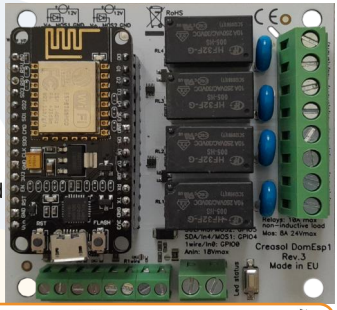
Can you route a thin alarm cable between the controller and the DomBus module?	Route a new cable!	**Safest solution, high security and reliability**. Using a common alarm cable, 4x0.22mm², you can exchange data and feed 13.8V power supply!
Do you **already have a LAN cable** between the room with the domotic controller and the room where the DomBus module is placed?	Use the existing LAN cable!	Lan cables have 4 twisted pairs inside: 2 to exchange ethernet data (using 1,2,3,6 of RJ45 connector), 2 pairs used for PoE: **you can use one of these twisted pairs for RS485 connection** between controller and DomBus module!
No possibility for any wired connection? You have more solutions!	Use a radio link for RS485 connection	**Transparent radio link** between RS485 adapter (on computer) and DomBus modules. Tested radio modules: EWM-290-400T20D
	Use a DomBusGatewayPIS	**Bridge between DomBus networks** (RS485) **and MQTT** (LAN)
	Virtual serial port between domotic controller and a computer near the DomBus module	Using Linux, it's simple to create a **network connection between two hosts** using socat and ser2net
	Using a ModbusTCP LAN or WiFi module	There are several **products in the market to connect a RS485 bus by LAN or WiFi**: some of them also support virtual serial connections (work with both DomBus and Modbus protocols), few of them support only Modbus TCP (work with DomBus modules programmed with Modbus protocol only. DomBus protocol not supported)
	Use ESP32 + ESPHome	Solution using a **ESP32 module**, that works with Modbus protocol only

More info at www.creasol.it/DomBus38

DomESP1 - ESP8266 board with 4 relays, 2 mosfet, ...

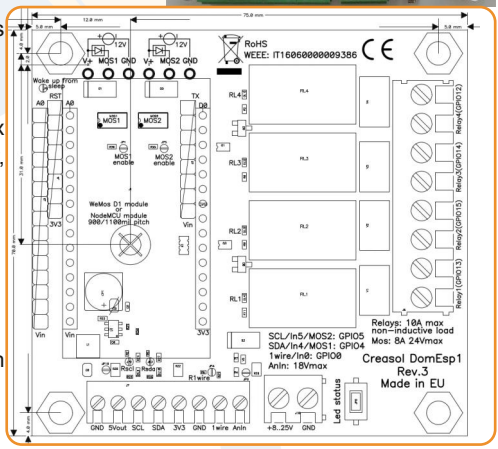
Applications:

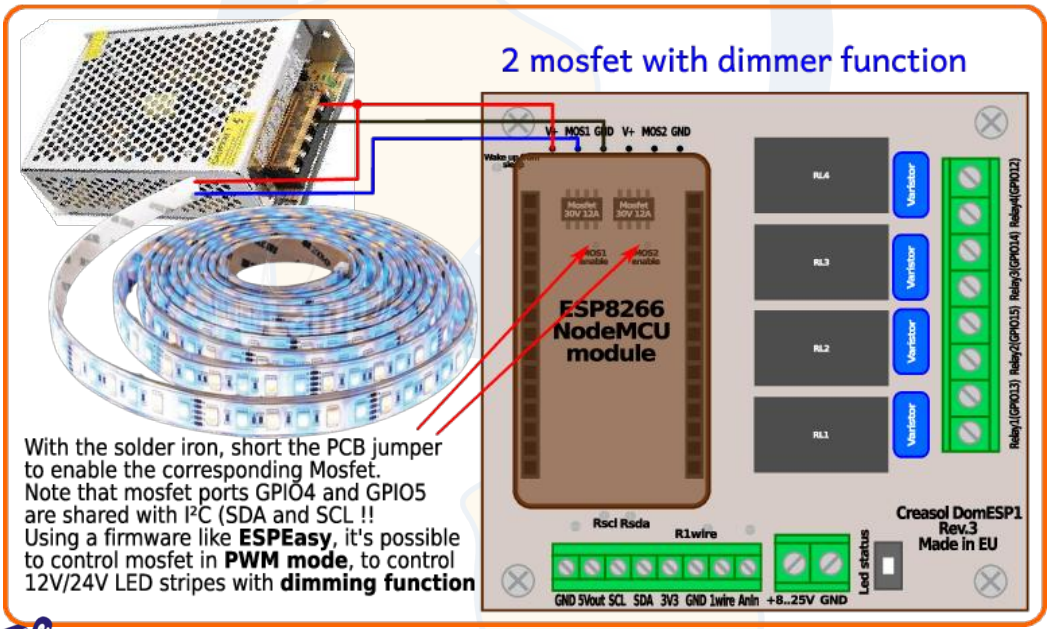
- **Gate and garage door opener by smartphone**
- **Light dimmer for 2 LED strips** (12/24V 10A max)
- **Network of 1wire devices**, including temperature sensors DS18B20
- **Relay board** with some 3 I/Os shared with 1wire and I²C bus
- **Swimming pool**, measuring water temperature and activating pumps and heater



Features:

- Supporting **NodeMCU v3 module** with 900mil pitch, optionally 1100mil pitch and WeMos module.
- **4x relays SPST 10A** (NO contact)
- **2x mosfet in open-drain configuration** 30V 10A max (I²C bus disabled) with dimmer function (ESPEasy, ESPHome, ...)
- **1 analog input**, 18Vin max
- **I²C bus** (mosfet must be disabled)
- **1wire bus** (DS18B20 or other devices)
- I²C and or 1wire can be used as normal I/O
- 8÷25V input voltage, 480mW power consumption with relays OFF
- 75x70mm size
- Supporting **ESPeasy, ESPHome** and other firmwares for NodeMCU ESP8266 module





More info at www.creasol.it/DomESP1

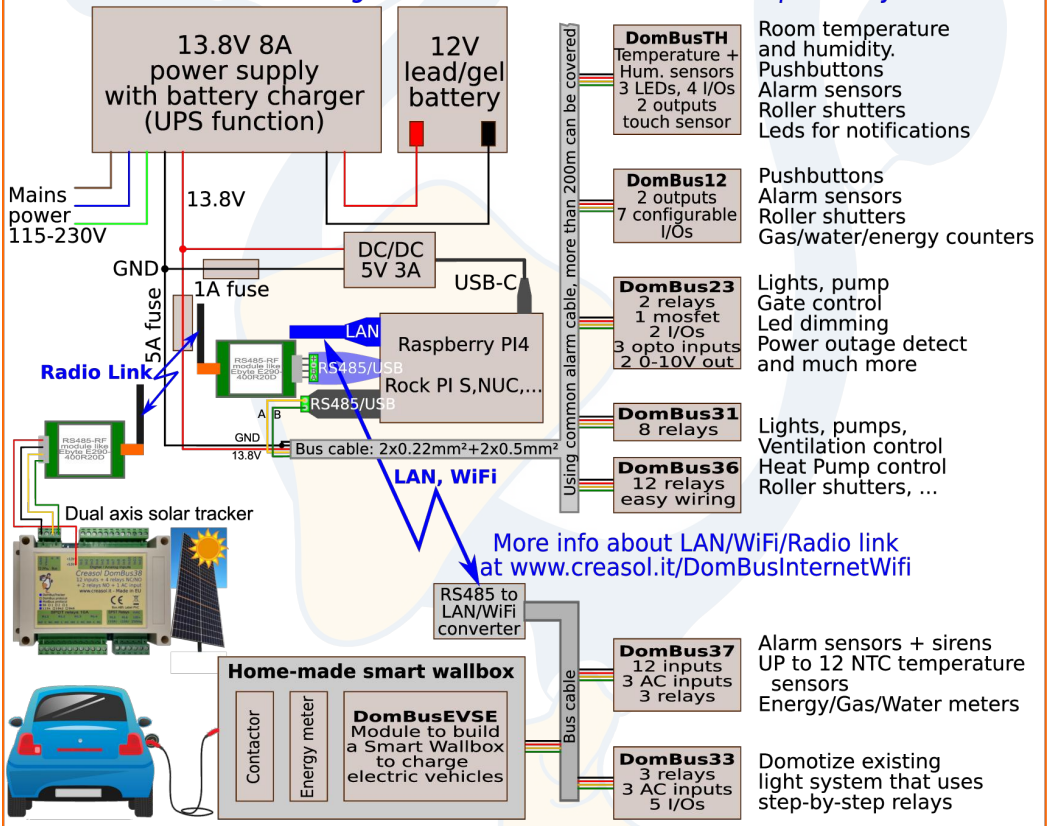
DCMD commands for DomBus modules

DCMD are commands triggered by an event and sent to the module itself, to other modules or to the domotic controller (not available in case of Modbus protocol and EVSE module).
For each module port, is DCMD is suppoted, it's possible to specify **up to 4 DCMD commands**,for example:

1. *if a pushbutton is pushed shortly, toggle on/off the light* (port 16 on module address 3701): for that input we can write the following textual command:
   DCMD(Pulse)=3701.16:Toggle
2. *if a motion detector becomes active, activate two lights* (ports 1 and 2 on module 3601) for 120s:
   DCMD(On)=3601.1:On:120s, DCMD(On)=3601.2:On:120s
3. *if a pushbutton is pushed for about 1 second, turn off relay 3 and turn on 4 on module 3601*:
   DCMD(Pulse1)=3601.3:Off, DCMD(Pulse1)=3601:4:On
4. *If voltage goes below 12V turn off DVR and CAMS* (module 2101, port 3); *turn on when above 13.2V*:
   DCMD(Value:0:12)=2101.3:Off, DCMD(Value;13.2:20)=2101.3:On

The same can be done with outputs (for example, *if a relays is activated, also activate another relay*), temperature (*if room temperature is very low, force heater activation*), humidity (*dehumidifier if wet*), wind speed, ...
In this way it's possible to realize very simple automations that work independently from the home automation controller, for the best reliability (like KNX® does).
More info in the DomBus product page.

DomBus building automation network with backup battery



More info at www.creasol.it/DomBusInternetWifi

Multi-frequency remote control duplicators working in both 433.92 MHz and 868.3 MHz

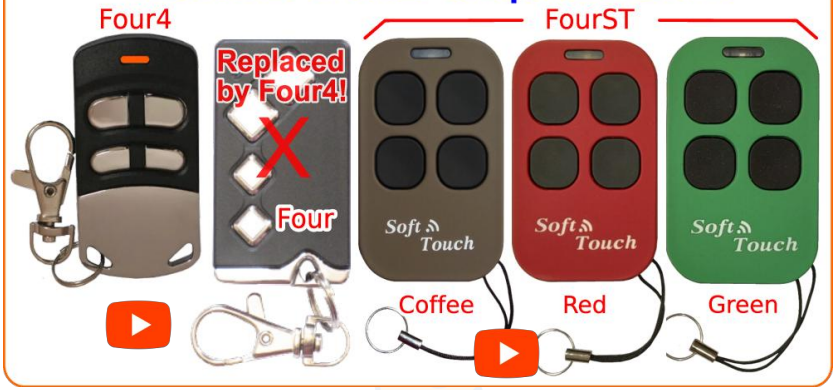
- **Copy existing remote control**, fixed code, to increase the number of available key fobs
- **Copy up to 4 different remote controls** in a single one, to open gate, pedestrian door, garage door, traffic barrier, ... with a single remote control
- Use factory-programmed code with a new universal receivers (see next section)

Features:

- **4 independent buttons** that are able to copy 4 different types of remote controls
- **Multifrequency**: from 220 MHz to 868 MHz. For EU market, only 433.92 and 868.3 MHz are enabled
- Supports **fixed code remote controls**, transmitting with OOK modulation (AM) receivers
- **Very easy to program, high quality, made in EU**

More info at www.creasol.it/MultiST

433.92 MHz duplicators



Features:

- **Like Multi and MultiST, but working at 433.92 MHz only**

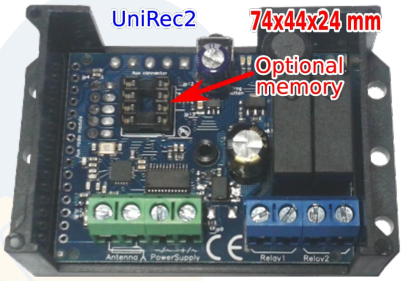
More info at www.creasol.it/FourST

Universal multi-frequency receivers

1 channel, opto output
40Vdc max, 50mA

41x31x11.5 mm

2 channels, opto outputs:
CH1: 40Vdc max, 50mA
CH2: 40Vdc or 40Vac, 100mA

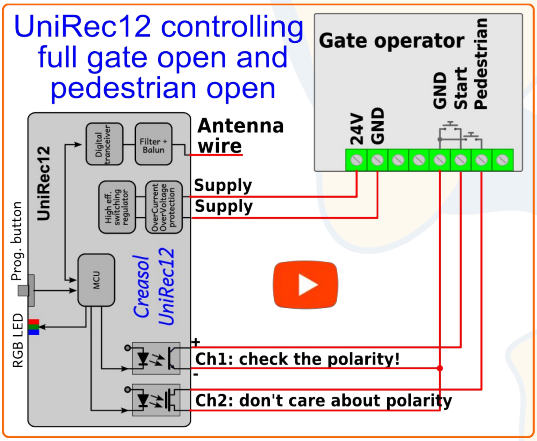


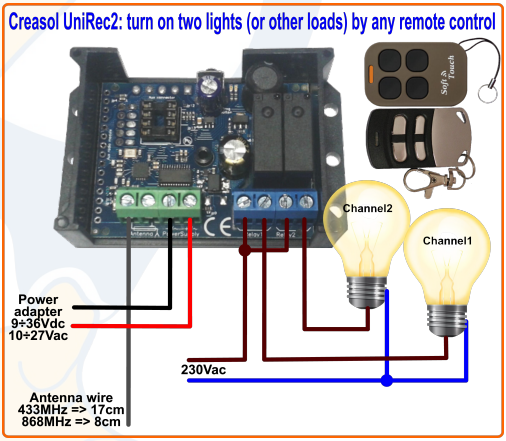
2 channels, relay outputs, 250Vac 5A

- **Replace the receiver, even if integrated in a electronic board, that does not work**
- **Add a universal receiver, working with almost any remote control in the market**, to an electronic board to activate it by one or more different remote controls
- UniRec2 only: add the possibility to **control lights, motors, pumps directly** by their 5A relays

Features:

- **Multifrequency**: from 220 MHz to 868 MHz, configurable by the user.
- **Dual frequency**: it's possible to configure receiver to **listen on two different frequencies/modulations**
- Supports **fixed and rolling code remote controls**, transmitting with OOK (AM) and FSK (FM)
- Switching mode power supply, to **reduce energy consumption**, 8÷36Vdc and 9÷27Vac
- **Very very compact UniRec1 and UniRec12**, working with gate and garage door operators, and other electronic boards (cannot manage actuators directly: use UniRec2 for that!)
- UniRec1: 50mA 40Vdc output
- UniRec12: 50mA 40Vdc on CH1 (check polarity!), 100mA 40Vdc or 40Vac on CH2 (works also in AC)
- UniRec2: 5A 250Vac or 30Vdc relays
- **Very easy to program, high quality, made in EU**



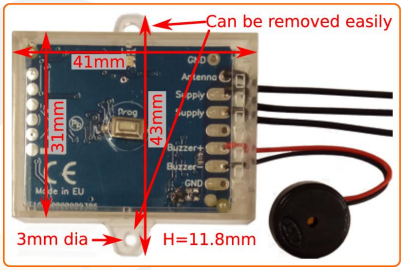


More info at www.creasol.it/receivers

Electric lock door opener

Applications:

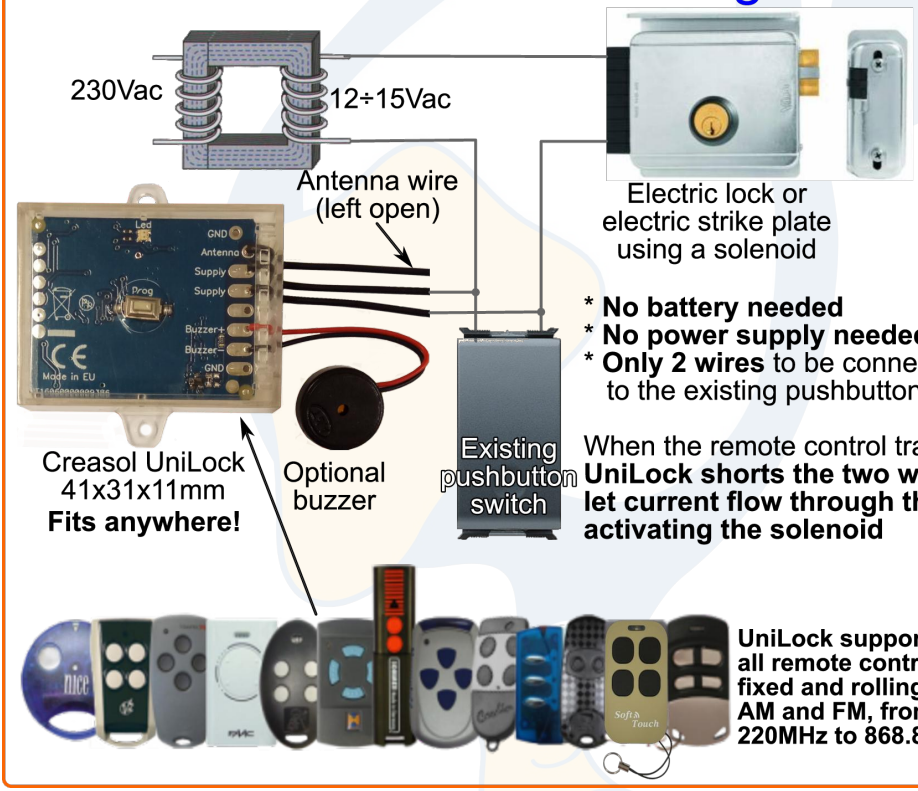
- **Open pedestrian gates/doors by remote control**
- **Open main door by remote control**



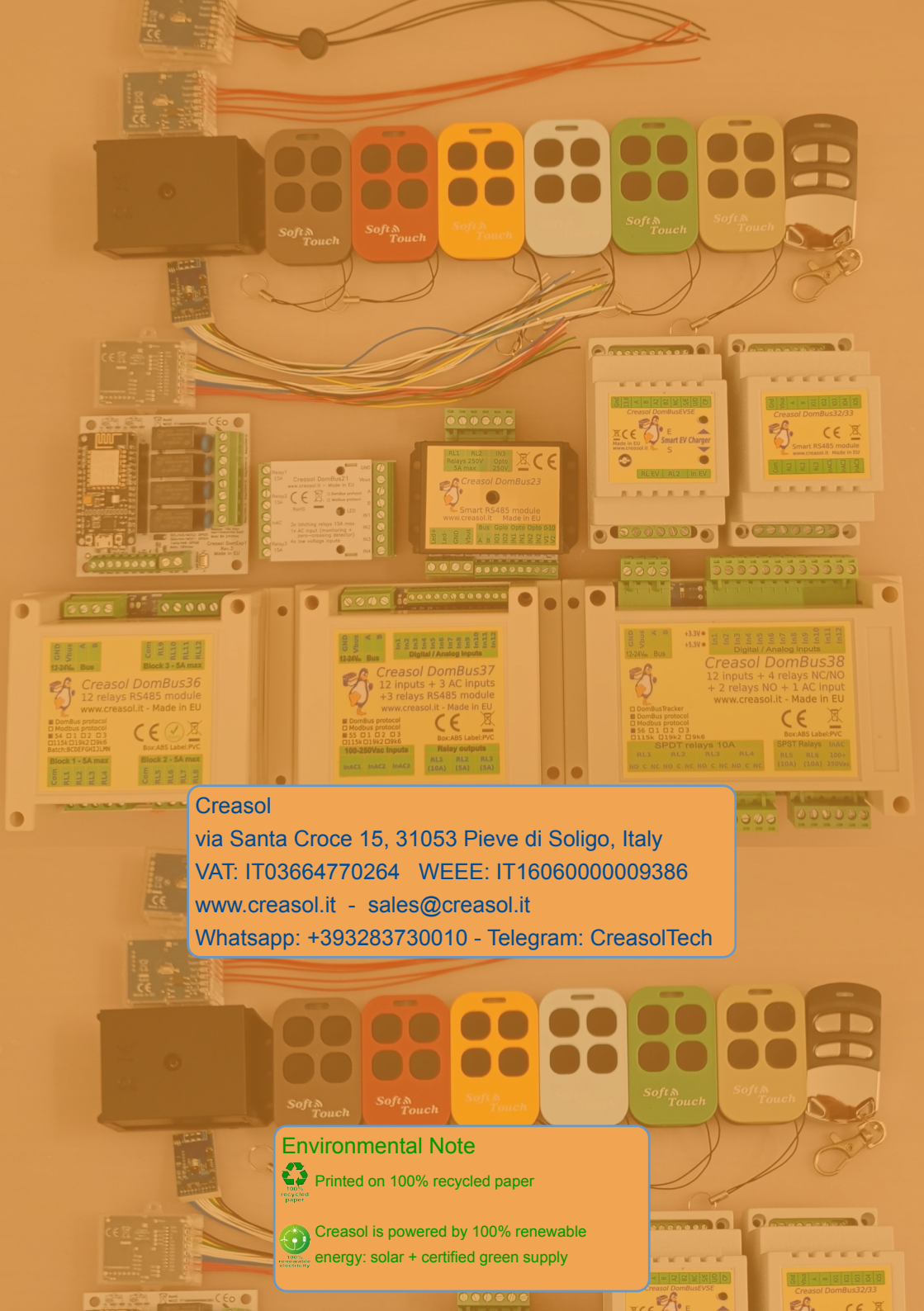
Features:

- **Multifrequency**: works from 220 to 868.8 MHz, OOK (AM) and FSK (FM)
- **Dual frequency**: it's able to work on two different frequencies/modulations simultaneously
- Works with almost **any remote control in the market, fixed and rolling code**
- **Very very quick and easy installation** (only 2 wires, no power supply, no battery)
- **Easy programming**

UniLock connection diagram



More info at www.creasol.it/UniLock



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