



Sistema Casa®

Sistema Casa lighting control system

Sistema Casa offers a lighting control system that works at 230V, 50Hz fully integrated with HAI controllers. The solution is based on the EDS bus system that includes a variety of modules distributed or Din Rail centralized. The gateway for HAI controllers is connected to a serial port using the HAI ASCII Lighting Protocol (ALP). All the functions of the ALP protocol are available including the update of the lights status on the controller when the command is triggered on the bus and the capability to trigger controller programs based on switch pressed. EDS is a bus technology based on a communication channel that allows information exchange between different modules, such as digital input, output actuators, light dimmers, etc ...

The configuration of the modules is done with the EDSCONFIG software that allows to create or modify:

- Input option
- Output type and option
- Input/Output association
- Gateway configuration
- Etc...

Bus length depends on communication speed, EDS bus could communicate with 2 different speeds: 9600 bps (maximum bus length 1200 meter), 19200 bps (maximum bus length 1000 meter).

EDS bus wiring is "free topology", the modules can be connected together in random order without following any specific method. Modules are connected between them using 3 normal wires: one for the positive voltage (VCC), one for the transmission (DATA), and one for common negative voltage (GND); minimum wire section is 0,5 mm².

It is possible to connect up to 250 different modules in the same bus.

Module types

The EDS system includes different modules with different characteristics:

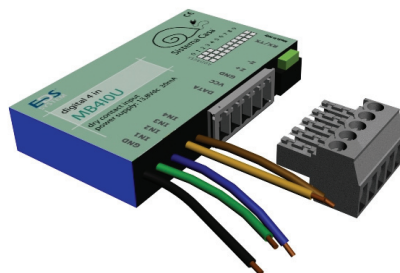
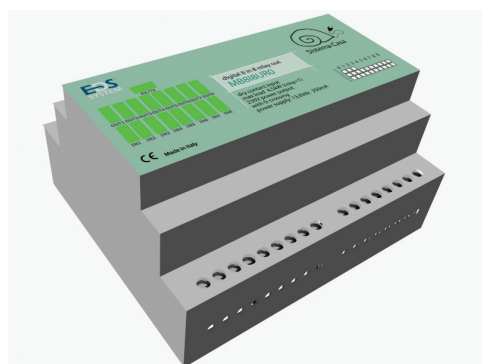
- **Digital input:** could be connected with dry-contacts (such as pushbuttons, switches, etc...) or with open-collector outputs; each input is able to command up to 4 different outputs
- **Digital output:** could be connected with low power actuator (led or low voltage devices) or with relays; each output can be programmed with different functions
- **Dimmer:** could change the light intensity of resistive or inductive loads, each dimmer can be programmed with different functions
- **Analog output:** analog 0-10Vdc output with dimmer functions, used for electronic transformer (ballast, RGB controllers, etc...) or generic 0-10V loads
- **Gateway:** allows the exchange of information between the EDS bus and the HAI controllers



MBINTSC - Gateway for HAI controllers



MB0IDUB - Dimmer with 2 channels



MB8I8UR - 8 digital input, 8 relay module

MB4I0U - 4 digital input module

Part Numbers	Distributed Modules
MB4I0U	4 digital input module
MB6I0U	6 digital input module
MB0I4UD	4 digital output module
MB0I8UD	8 digital output module
MB0I10U	0-10 VDC output module
MB0IDUB	Base dimmer 800W, 2 channels
MB0IDU	Advanced dimmer 800W, 2 channels
MB4I4UD	4 digital input, 4 digital output module
MBINTIR	Universal IR receiver
MB4IIR	4 digital input with IR module
MB6IIR	6 digital input with IR module
	Din Rail Modules
MBINTSC	Gateway for HAI controllers
MB0I8UR	8 relay module
MB4I4UR	4 digital input, 4 relay module
MB8I8UD	8 digital input, 8 digital module
MB8I8UR	8 digital input, 8 relay module
MB8I8UR0	8 digital input, 8 relay module, 0 crossing
	Accessories
MB1R10A	1 Relay 10A, NO/NC
MB4R16A	4 Relay 16A, NO
MBAL4A	Din Rail Power supply 13,8V, 4A
MBSEZ01	Splitter module
MBRID01	Redundant module
MBTIR8	8 button remote controller

Sistema Casa is a company established in Italy and is distributor of HAI products since 1993.

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