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0003 · Generic Automation Module

Description

It is a module suitable for all fields of automation and the capture of physical parameters, both in the industrial and tertiary environments.

The size of the module is that of a box of 140x45x29 mm with the typical format of power supply for LED lighting, this format provides a simple and direct installation in false ceilings, channels, large boxes or directly attached to the wall.

On the cover of the box we will have both the model and the LEDs for signaling the status of the module, there is no external pushbutton so in case of a need to restart we will have to disconnect the equipment from the power supply.

Most equipment has a relay output, this relay can perform **direct** actions depending on the analog or digital reading of the module.

Parameters

Module

Parameter	Minimum	Tipycal	Maximum	Unity
Supply Voltage (AC See)	100	230	250	VAC
Supply Voltage (DC See)	10	12	30	VDC
consumption	0,001	0,007	0,015	A
Power	0,25	1,60	3,30	W

Relay

The relay is installed by Omron and the model is G5Q-1.

Parameter	Minimum	Typical	Maximum	Unity
Contact Voltage	5		250	V
Admissible Intensity (250v)			3	A
Durability (3A/250v)		50.000		operations

WiFi

Parameter	Values
Protocols	802.11 b/g/n
Frequency Range	2,4GHz (2400MHz ~ 2483,5MHz)
Security	WPA / WPA2
Encryption	WEP / TKIP / AES
Potency of Transmission	+20dBm (802.11b)
Sensibility	-98dBm

Connection

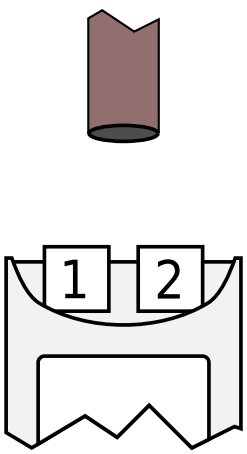
The device has two terminals on both sides of the housing, covered by protective covers, in one of them is the power terminal, with only 2 terminals, and on the opposite side the auxiliary terminal, with several connectors depending on the model .

Power Terminal Block

The power supply terminal (2 terminals) is through which we will have to power the device. There are 2 versions of the device, the AC power supply, with 100 ~ 240V input and the DC version with a 10 ~ 24V input.

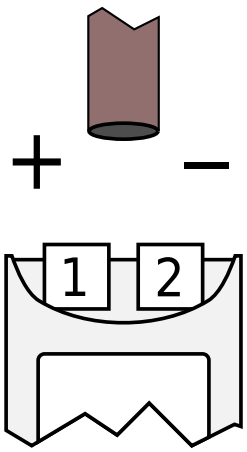
They are **two totally different models**, you can not feed the DC version through AC power, it would destroy the equipment and it would lose the warranty.

AC Version



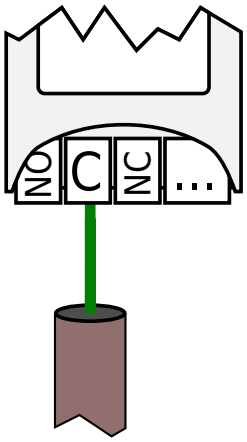
For the AC version, in the diagram we can see how we will connect to both terminals regardless of layout.

DC Version

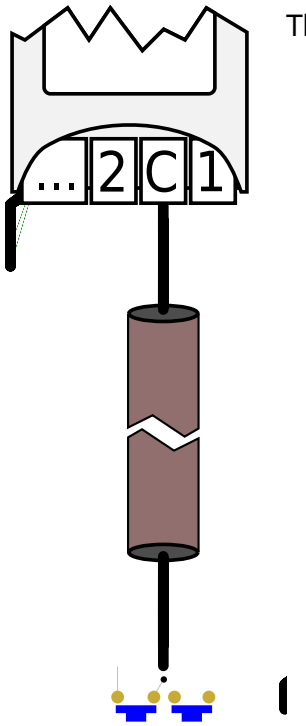


In the DC version, on the other hand, if there is an arrangement of the power cables that must be respected, if they are not respected the equipment will not work and therefore will not be active.

Auxiliary Terminal



Most of the devices have a switched relay with which we can control any element with the auxiliary terminal. In this terminal is present the switched contact of the relay.



The base device incorporates 2 digital inputs in its default configuration. These inputs are for voltage-free contacts.

Sartup

For startup use the method described here: Configuration Process

Configuration

The entire configuration process is described here.

Uso