



## BEACON CONTROLLING EQUIPMENT FOR LIGHTING SYSTEM OF ANTENNAS SUPPORT



### Model : ENERtel CBXF01

The Beacon Controlling System **ENERtel-CBXF01**, has been developed to switch on and switch off automatically the obstacle lights (beacons) in the structures of telecommunication antenna.

**ENERtel-CBXF01** is designed to perform the supervision, control and transmission of possible malfunction in the different components of the beacon controlling equipment.

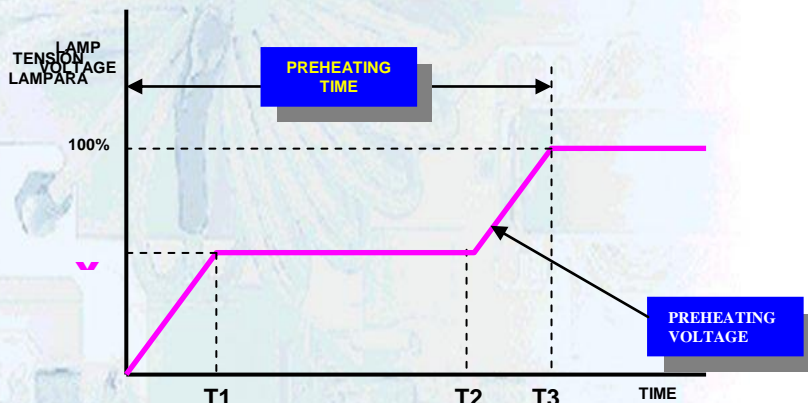
The equipment controls the illumination of 1, 2 or 3 rating 75W incandescent lamps by means of a photocell placed in the supporting tower, the photocell is delivered with the equipment. This photocell monitors the luminosity level to detect possible luminosity levels below the preset level.

**CONTROLLED BY MICROPROCESSOR**



ENERtel-CBXF01 BEACON CONTROLLING EQUIPMENT

**WITH PREHEATER FUNCTION**



BEACON PREHEATING DIAGRAM

### ENERtel-CBXF01 PROVIDE A BEACON PREHEATER

The beacons switch on is not at once, but in a progressive way. For that **ENERtel-CBXF01** include a "BEACON PREHEATER CONTROL" witch provide the option of set the time and voltage parameters according with the client design, defining in each case the curve of preheating (as show the figure)

#### ENERtel-CBXF01 permit:

- ✓ Know beacon status, switch on or switch off
- ✓ Know if installed beacons are disconnected or break.
- ✓ Detect possible failures in the photocell
- ✓ Detect possible failures in feed of alternating current to lamps.
- ✓ Test the correct operation of the beacons control circuit .
- ✓ Test the correct operation of the photocell control circuit .

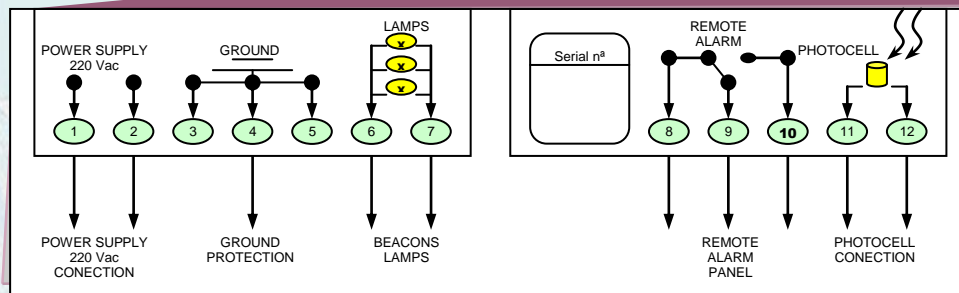
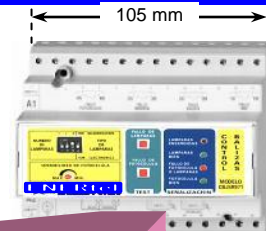


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## Módulo de Control ENERtel CBXF01 : DIMENSIONES Y CONEXIONES

### ASSEMBLY IN DIN RAIL



## TECHNICAL CHARACTERISTICS

- ✓ Power Supply in Single-phase 220 V ac +/- 15%, Frequency 50 Hz.
- ✓ Supervision and Control of the illumination of 1, 2 or 3 rating 75W incandescent lamps.
- ✓ Frontal cover switch to set the number of beacons .
- ✓ Range selector user-accessible from frontal cover to set the photocell luminosity level sensitivity (20 to 1500 Lx).
- ✓ Preheating process, All preheating parameters are setting by the user.
- ✓ Power feed to lamps protected by varistors .
- ✓ Power feed to lamps without voltage if exist diurnal light .
- ✓ If photocell has a failure ( break, stolen, disconnect ...) power feed to lamps remain with voltage (Lamps illuminated).
- ✓ If Beacon Controlling equipment has a failure, power feed to lamps remain with voltage (Lamps illuminated).
- ✓ The photocell action is delayed to avoid the occurrence of accidental operations due to false readings provoked by external agents (shadows, birds, artificial lights, etc.).
- ✓ Time delay setting by user.
- ✓ Key to Test Broken lamp .
- ✓ Key to Test Failure Photocell.
- ✓ **Yellow Led** show witch lamps are illuminated.
- ✓ **Green Led** show lamps status OK.
- ✓ **Green Led** show photocell status OK.
- ✓ **Red Led** show that exist any Alarm.
- ✓ Spare contact to remote transmission of one alarm.
- ✓ Galvanic isolated between lamps circuit and control circuit.
- ✓ Control circuit protection with fuses.
- ✓ Terminals of connexion ( AC Power supply, photocell, ground, lamps, alarm,...) able to fit until 2,5 mm<sup>2</sup> section cable.