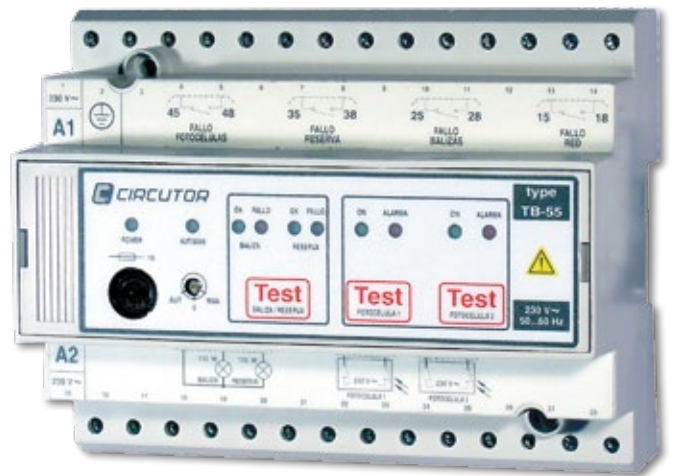


# TB

## Beacon control relays



### Description

The **TB** type Beacon control system is in charge of the supervision, control and indication of anomalies detected in the different Beacon components of the telephony transmission towers.

#### TB / TB-55 Features:

- Control and measurement of the consumption of the two sets of independent ballasts (230 Vac power supply): the main circuit and the reserve circuit. The reserve circuit is connected when there is a fault in the main circuit or when a lamp goes out.
- Control inputs of the two twilight photocells on the tower. When the light level is under the threshold, an internal contact is closed (applying a 230 Vac voltage at the input of the photocell of the **TB**), and the ballasts will be connected. Said photocells are not supplied with the equipment and can be purchased separately.
- Alarms indicated with LEDs on the front of the unit.
- Alarm signalling relay outputs

### Application

Designed to control and supervise the night ballasts on metallic antennae support structures, with a dual Beacon circuit (main and reserve), and to supervise the operation of the dual photocell circuit. Said ballasts will start operating when the level of lighting is below a determined threshold, detected by twilight cells.

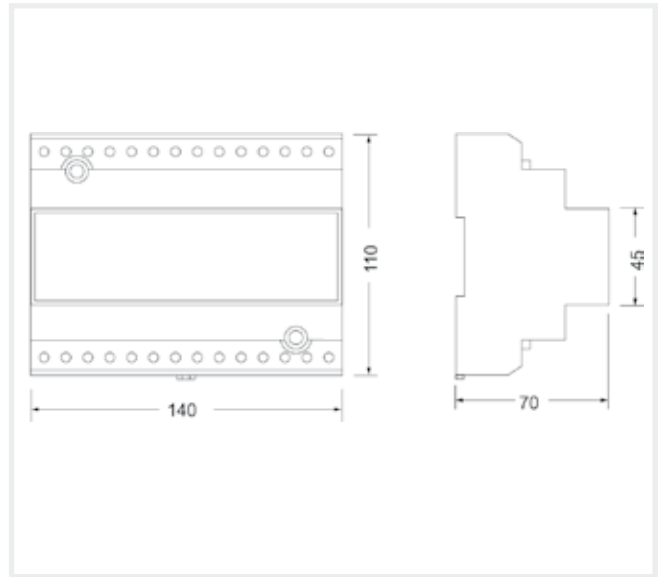
### Features

<b>Power circuit:</b>	
Voltage	Single phase 230 Vac ( $\pm 25\%$ )
Frequency	50 ... 60 Hz
Consumption of the unit	5 V·A
Consumption of the unit + Ballasts	305 W
<b>Ballasts</b>	
Maximum number of ballasts (limited by power)	<b>TB-55:</b> 110 W main circuit + 110W reserve Example: Two 55 W ballasts or five 22 W ballasts per circuit <b>TB:</b> 150 W main circuit + 150W reserve Example: Two 75 W ballasts per circuit
<b>Photocell input</b>	
Number of inputs	2
Type of input	230 Vac $\pm 20\%$
<b>Output relay features (alarm)</b>	
Insulation voltage ( $U_i$ )	250 Vac / 30 Vdc
Thermal current $I_{th}$	5 A
Maximum switching voltage	1250 VA
Mechanical working life	$1 \times 10^5$ operations
Electrical working life	$1 \times 10^5$ operations
<b>Build features:</b>	
Type of box	Modular, self-extinguishing plastic material
Connection	Metallic terminals for "posidriv" screws
Fixing	DIN Rail 46277 (EN 50022) Optional fixing with screws (fixing drill hole $\varnothing 4.2$ mm)
Dimensions	8 modules (140 x 70 x 110) in accordance with DIN 43880
Degree of protection	Embedded relay : IP 41 / Terminals : IP 20
Safety	Category II, EN 61010
<b>Ambient conditions</b>	
Operating temperature	-5 ... +55 °C
<b>Standards</b>	
IEC 60255-5, EN 61010, EN 60664, EN 61000	

**TB**

Beacon control relays

Dimensions



References

Description	Type	Code
Ballasts 110 W (2 x 55 W) Control of 2 circuits: Main (Beacon) and reserve4 fault alarm relays: Grid voltage, photocell, main and reserve circuit (The photocell is not included)	TB-55	P30101
Ballasts 150 W (2 x 75 W) Control of 2 circuits: Main (Beacon) and reserve4 fault alarm relays: Grid voltage, photocell, main and reserve circuit (The photocell is not included)	TB	P30104

Connections

