

## General description

The RK3x500 is a three channel proportional actuator (triac output) that allows to regulate halogens or incandescent lightning up to 500W with transformers incorporated or not, also applicable for LED lights control using leading edge transformer.

Designed to obtain a precise digital regulation receiving orders through the KNX bus or from any conventional pushbutton connected to its low voltage input by using long/short pulsations method.

The regulating ramp speed (on/off lighting) and other dimming characteristics can be configured by programming.

## Characteristics

3 Regulation channels.

Applicable power per channel depending on the load:

- Incandescent or halogen loads 230V..... 500W
- Low voltage loads with a conventional transformer..... 300W
- Low voltage loads with a electronic transformer..... 160W

3 low voltage inputs (SELV) for pushbutton (non programmable).

8 Programmable scenes executed from bus commands.

Remote enable / disable of bus control.

Overload circuit protection.

Digital regulation control based on microcontroller with more than 200 regulation points.

Last position memory in case of power failure.

## Technical information

**Power supply** - 230 Vac.

**Max. power consumption** - 0,5W @ 230Vac.

**KNX supply** - 29VDC from KNX BUS.

**Current Consumption** - 5mA from KNX BUS.

**Inputs** - 3 low voltage input (SELV) referred to an internal reference (minimum activation current 5mA).

**Outputs** – 3 regulation channel (triac output).

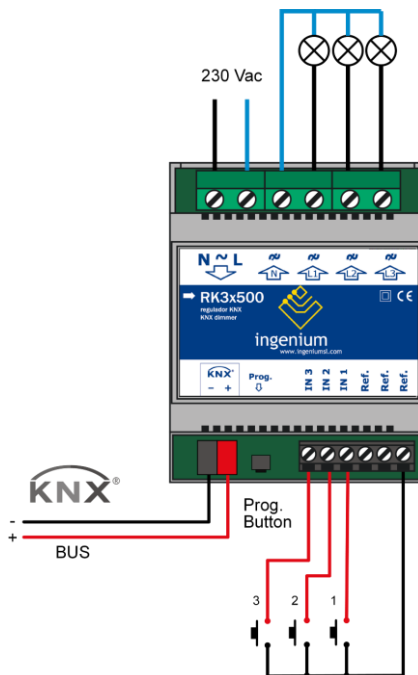
**Connections** - BUS connection terminal KNX.

**Mounting** – Din rail, 4 modules.

**Environment temperature range** - Operation: from -10°C to 55°C / Storage: from -30°C to 60°C / Transportation: from -30°C to 60°C.

**Regulation** - According to the directives of electromagnetic compatibility and low voltage. EN 50090-2-2 / UNE-EN 61000-6-3:2007 / UNE-EN 61000-6-1:2007 / UNE-EN 61010-1.

## Installation



## Remarks

Feed low voltage lines (KNX bus and inputs) in separate ducting to that of power (230V) and outputs to ensure there is enough insulation and avoid interferences.

Do not connect the main voltages (230 V) or any other external voltages to any point of the KNX bus or inputs.

