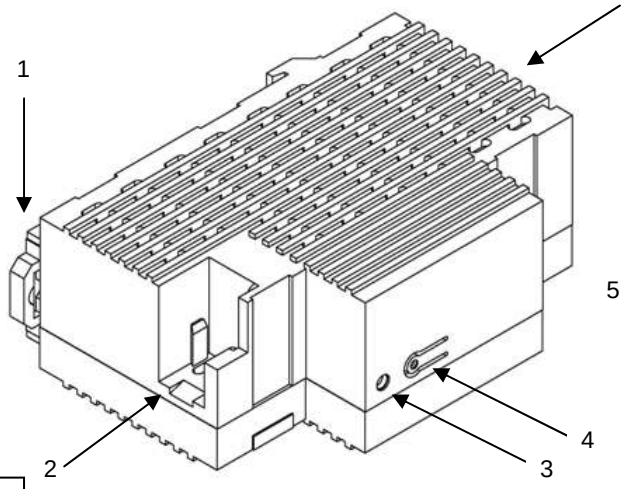
Luzen Plus. Universal DIMMING Actuator for lighting control
ZN1DI-P400 **Technical Documentation**

MAIN FEATURES

- Reduced size: 90 x 60 x 35mm (2 DIN rail units).
- 1 Channel 400W @25ºC (230V – 50Hz).
- Automatic detection of load type.
- KNX BCU integrated.
- Independent control assembly , to be mounted inside distribution boxes or electrical panels with DIN rails.
- Total Data Saving when Power Failure occurs.
- CE Directives OK.



Programming/test button: a push button to set the PROGRAMMING MODE. If this button is held while plugging the device into the KNX bus, it goes into SECURE MODE. If this button is held more than 3 seconds, the device goes into TEST MODE. Within the test mode, On/Off functionality by pushing the button is enabled (application program is not needed).

LED: programming mode indicator (red). When the device goes into secure mode, it blinks (red) every half second. The test mode is indicated by the colour green.

1. DIN Rail unit clip
2. KNX Bus connection
3. Programming/Test LED
4. Programming/Test push button
5. Terminal block (Load, Neutral and Phase)

GENERAL SYSTEM FEATURES		
Device Type		Electric Operation Control Device
KNX Supply	Voltage	29V DC SELV
	Voltage Range	20...31V DC
	Consumption	150mW
	Connection Type	Typical BUS connector TP1, 0,50 mm² section
External Power Supply		**230V-50Hz**
Max Channel Loading		400W
Min Load Rating		50W
Device Action Type		Type I
Electrical solicitations period		Long
Type of Protection		IP 20
Ambient Temperature		-5 ºC a +45 ºC
Storage Temperature		-20 ºC a +70 ºC
Ambient Humidity		30 a 85% RH (no condensation)
Storage Humidity (relative)		30 a 85% RH (no condensation)
Assembly		Independent control assembly to be mounted inside distribution boxes or electrical panels
Power Failure Response		Data Saving
Operation Indicator		Programming LED (red) ON when pushing the programming button. Test LED (green) ON when device is in Test mode
Weight		80 gr.
PCB CTI index		175 V
Enclosure		PC-ABS, flammability category Class D

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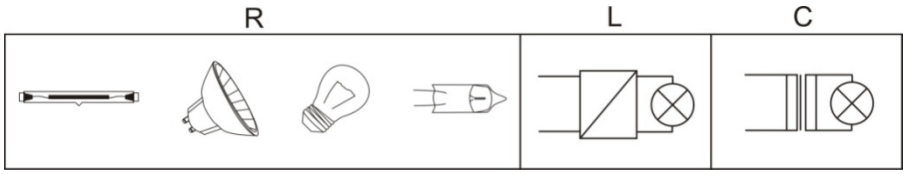
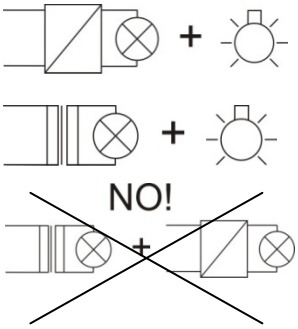
SUPPORTED LOADS

- R= Resistive
- L= Inductive
- C= Capacitive

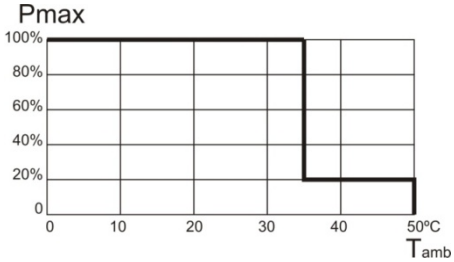


LOAD MIXING

- For mixed loads with conventional transformers, do not exceed a 50% share for the resistive load (incandescent lamps, HV halogen lamps).
- Conventional resistive loads can be installed together with capacitive loads (Electronic transformer) in any proportion.
- **NEVER connect capacitive loads and electronic transformers with inductive loads .**

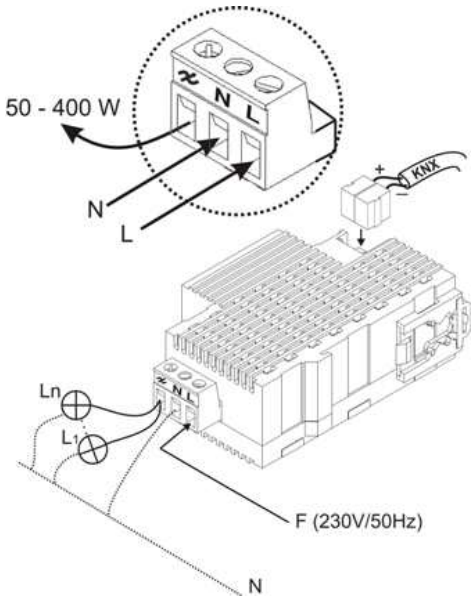


OVERHEATING PROTECTION



- When the ambient temperature is too high the universal Dimmer actuator will regulate itself, at a maximum of 20%.
- Once the ambient temperature decreases, the Dimmer will resume normal operation. Refer to installation guide.

OUTPUTS SPECIFICATIONS	
Contact Type	Semiconductor Switching device
Load Protection	Yes; overheating, overload and short-circuit protection.
Switching Capacity per output	400W @25ºC (230V-50Hz)
Dropping Voltage	Negligible
Connection Type	Screw Terminals Clamp
Recommended Cable Section	0,25 mm² to 2,5 mm²
Cable Type	Stranded or solid wire with crimping terminals.
Response Time	Negligible



⚠ SAFETY INSTRUCTIONS

- Do not connect the Mains Voltage (230 V) or any other external voltages to any point of the KNX bus. Connecting an external voltage might put the entire KNX system at risk.
- Once installed, the device must not be accessible from the outside.
- Installation should only be performed by qualified electricians following applicable regulations on preventing accidents, as required by law.
- Ensure there is enough insulation between the AC Voltage cables and the KNX bus cables.
- Keep away from water. If the product comes into contact with water or any other liquid, unplug immediately.
- Do not cover the device with clothes, paper or any other material when in use.
- Not observing these safety instructions may cause fire or other hazards.