

Conversion KIT K-303



Technical Data

- Input voltage 230V~ 50/60Hz
- Compact Dimensions
- Can be used for both electronic & electromagnetic ballasts
- Suitable for linear and compact fluorescent lamps (13-18-36-58W) of 4 pins. (not suitable for 2 pin lamps)
- Battery Ni-Cd of 3,6V 4Ah
- Protection against end of discharge and short circuit of the battery
- Environment temperature: 0 – 40°C
- Temperature control: 87°C
- Max absorption from the Mains: 18mA
- Power Factor: $\cos \lambda 0,8$
- Nominal Exit frequency: with lamp 25KHz, without lamp 100KHz
- Automatically adapts the autonomy to the lamp brightness to which it is connected
- Constant lamps brightness during emergency stage
- LED indicating the battery charging
- Battery recharging time: 24 hours
- Emergency stage inhibition control via switch (terminal 3-4). In case of a power failure to enable the luminary to enter in Emergency mode automatically, the terminals 3-4 should be united.
- Cables from 0,75 to 1,5 mm² can be used.
- Standard LED lamp cable length: 400mm
- Standard battery cable length: 300mm

Lamp	13W	18W	36W	58W
Lumen Factor	0,18	0,16	0,12	0,08
Autonomy	3h30	3h30	3h	2h30
Battery discharge current	1,2A	1,2A	1,7A	1,8A

Warning:

The protection against accidental contacts depends on the body of the device to which the Conversion kit K-303 is connected. The Conversion kit K-303 can only be connected to the battery supplied and not to any additional recharging devices with continuous or intermittent functioning.

Norms:

Complies with EN 60924, EN 60925.

Can be used in the lighting equipments complying with norm EN60598-2-22.

Can be used in the systems complying with the norm VDE 0108.

Attention:

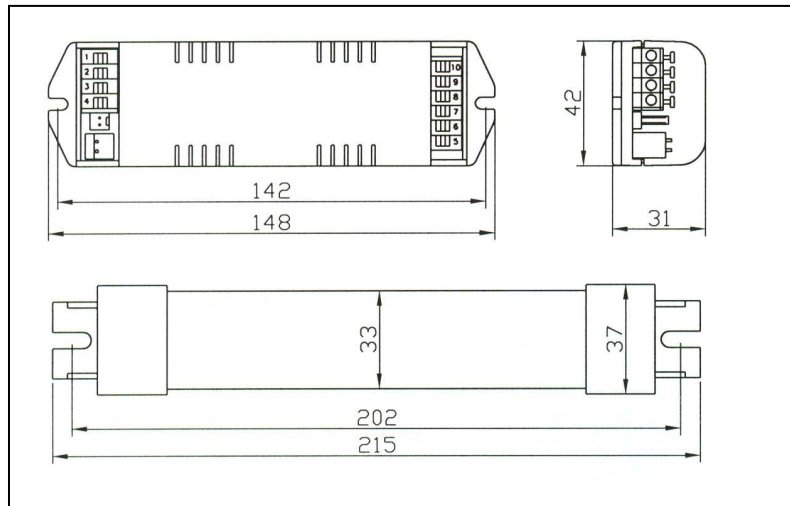
- Before installation, please make sure that the device is in perfect state.
- Before connecting the unit, verify that the information printed on it matches the power supply
- The unit should only be used for the purpose for which it has been intended and connected according to the instructions provided. The manufacturer does not hold any responsibility of any damaged caused to any person or animal due to improper or unreasonable.
- The Conversion kit K-303 has been exclusively designed to be used with the battery supplied with the device, and it should not be connected to any external recharging devices.
- When using any electrical equipment, please follow all the general precautions: disconnected the unit from the power supply and from the battery for cleaning and maintenance work.
- In case of any failure, please contact the authorised service centre for all the original spare parts, the use of improper spares may compromise the security and proper working of the device.

Installation:

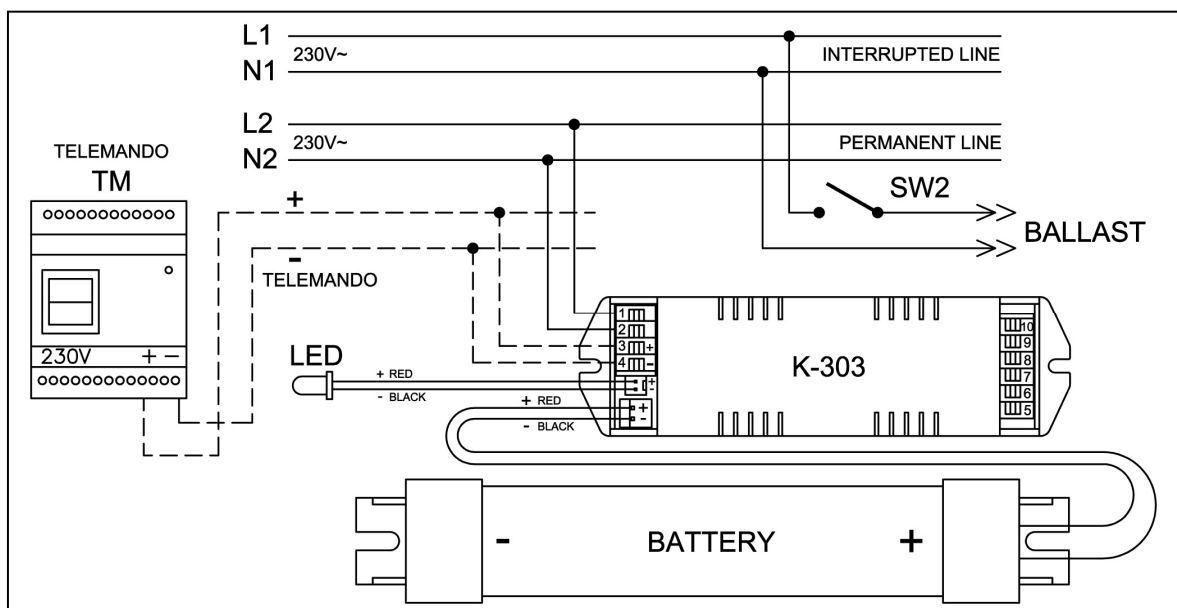
- Connect the Conversion kit K-303 as indicated in the wiring diagrams in the following pages
- Insert the LED indicator cable into the connector verifying the polarity.
- Insert the battery cable into the connector verifying the polarity.
- Install the battery inside the luminary away from the heat emitting components (ballast), as very high temperature could be harmful for battery life.

Note: While using Conversion kit K-303 with Electronic ballast "Rapid-Start"(without preheat) it might be necessary to use a switch or relay in the power line of ballast to allow the restart of the ballast after Emergency stage

Dimensions (mm)



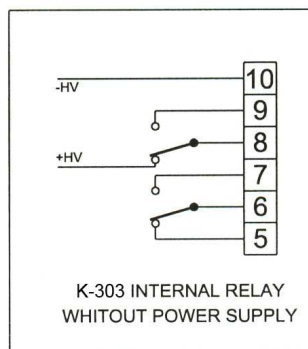
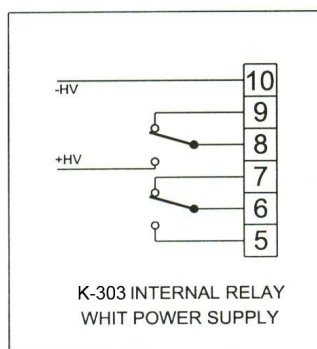
Wiring diagrams:



Attention: While using the emergency inhibition function by connecting a line with switch SW1 between the terminals 3-4, it is advisable to use cables of cross section and length that the drop voltage between the terminals should be less than 1V considering that the max current given by a single modules is 0.1A

Internal relay closure sequence of K-303

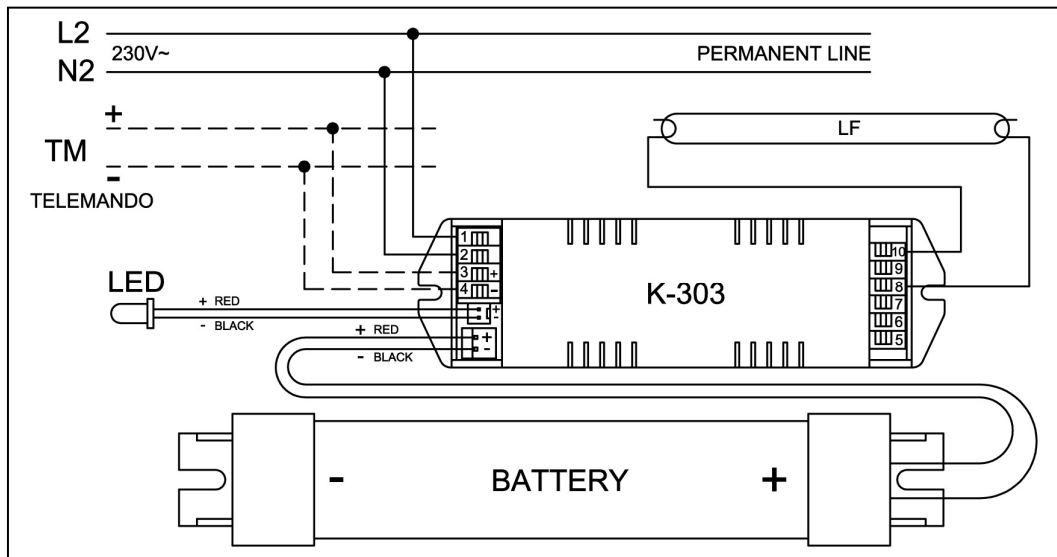
+HV y -HV are the connections to use to switch ON the light in emergency stage.



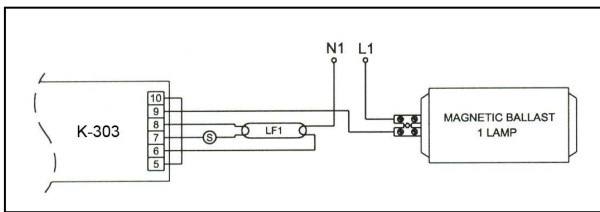
Wiring diagrams– Different configurations

The lamp that works on emergency stage is indicated as **LF1**

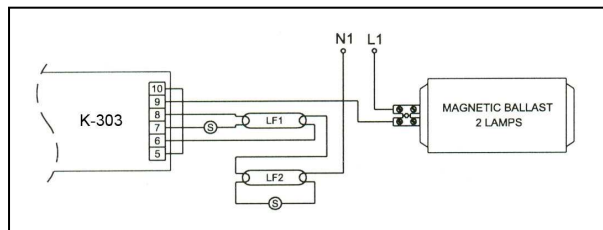
Non Permanent (Only emergency)



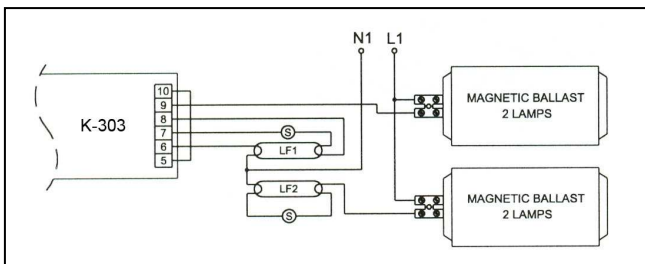
Single lamp ELECTROMAGNETIC ballast



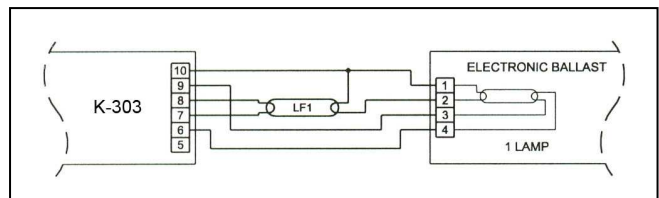
2 lamps ELECTROMAGNETIC ballast



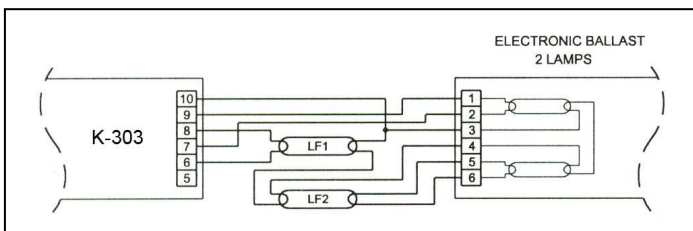
2 lamps, 2 ELECTROMAGNETIC ballast



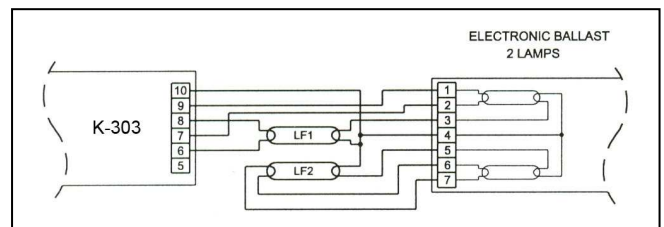
Single lamp ELECTRONIC ballast



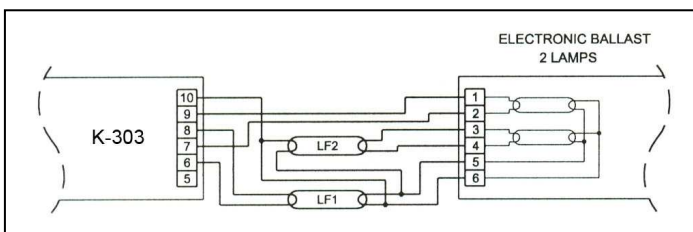
2 lamps ELECTRONIC ballast



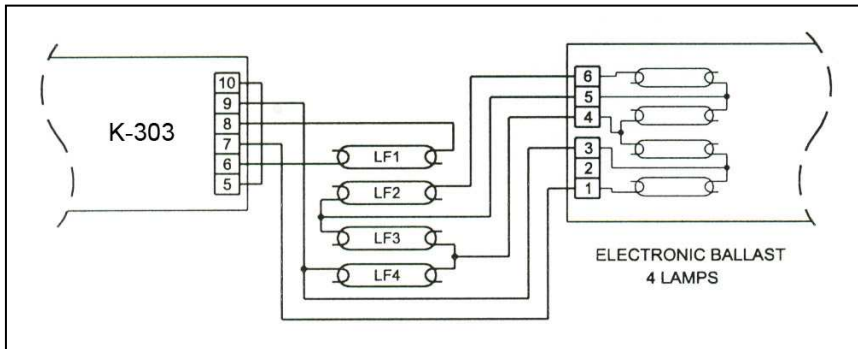
2 lamps ELECTRONIC ballast



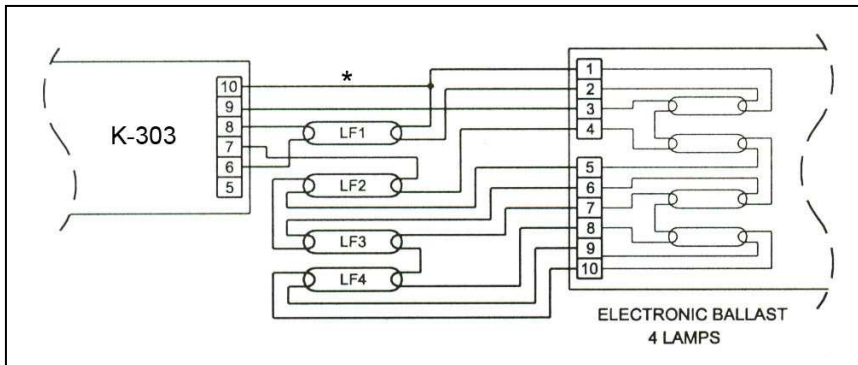
2 lamps ELECTRONIC ballast



4 lamps ELECTRONIC BALLAST



4 lamps ELECTRONIC BALLAST



* Connection 10-1 as short as possible

Autonomy and performance in % of the lighting flux in emergency stage (Average value)

Lamp	T5	T8	TC-S/E	TC-D/E	TC-T/E	TC-L	TC-F	FC-DDE	FC-T9C
Watt / Holder	G5	G13	2G7	G24q	GX24q	2G11	2G10	GR10q	G10q
13	3h30-37%			3h30-31%	3h30-30%				
14	3h-29%								
16								4h-29%	
18		3h30-19%		3h-30%	4h-25%	4h-20%	4h-19%		
20									
21	2h30-23%							3h30-22%	
22									3h30-19%
24	3h-22%					3h30-21%	3h30-17%		
26				2h30-27%	3h30-23%				
28	2h30-17%							3h30-19%	
30									
32					3h-20%				3h-14%
35	2h30-13%								
36		3h-14%				3h-15%	3h-15%		
38								3h-12%	
39	2h30-18%								
40									2h30-13%
42					2h30-12%				
54	2h30-10%								
55						2h30-7%		2h30-9%	
58		2h30-9%							