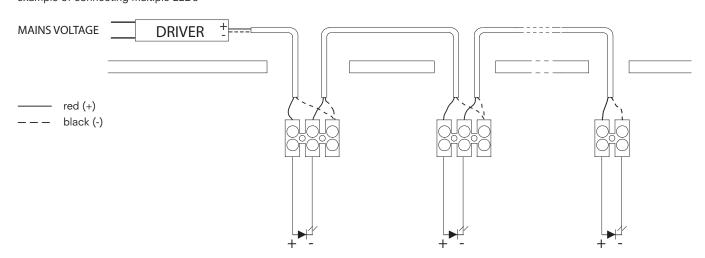
## kreon

## electrical connection of current driven LEDs **ALWAYS CHECK PRODUCT MANUAL!!** calculating total power of LED-driver system n = number of LEDs $P_{tot} = n \times P_{led}$ Pdriver = power of driver (Watt) $Pdriver \ge Ptot$ Pled = power of LED (Watt) Iled = Idriver Ptotal = total power of all LEDs (Watt) Iled = LED current (mA) Idriver = Driver current (mA) 1 | theory in case of connecting 1 LED **IMPORTANT NOTE (in both cases)** - mind the polarity of the LED!(\*) **DRIVER** MAINS VOLTAGE + = red- = black - make sure the driver hasn't been powered for at least 1min. prior to connecting the LED string - check your driver: if the driver is switchable, make sure you set the right current (same current as in case of connecting multiple LEDs

example of connecting multiple LEDs

MAINS VOLTAGE

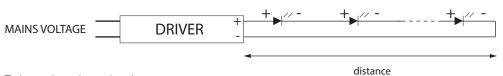
**DRIVER** 



connection kreon nv the use of a too high current will damage the LEDs

(\*) in case the wires of LED are not red and black, check the product manual for more information!

## kreon



To know the voltage drop/meter:

- determine led current, wire thickness and lenght of wiring
- lenght of wiring is the total length of all the wires going from/to the driver
- note: recommended distance (according to most suppliers) from driver to last LED is 5m lengths above 5m <u>may</u> induce RFI

V <sub>drop/meter*</sub>		Ledcurrent		
	notor*	350mA	500mA	700mA
Wire thickness	0,5mm²	0,012V	0,0175V	0,025V
	0,75mm²	0,0081V	0,012V	0,016V
	1mm²	0,0061V	0,0088V	0,012V
	1,5mm²	0,004V	0,0058V	0,0081V
	2,5mm²	0,0025V	0,0035V	0,005V

(\*) length of wire = distance x2

3   distance drive	r-LED
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