kreon

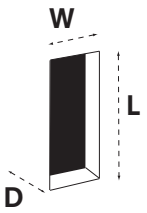
technics | Mini Side / Mini Side LED / Mini Side LED outdoor

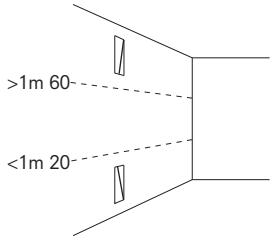
Name	Reference	L x W x D (*) with installation box
Mini Side	kr99265x / kr97265x	420 x 135 x 75
Mini Side LED	kr99285x /kr97285x	420 x 135 x 75
Mini Side LED outdoor	kr97205x	420 x 135 x 75

Please make sure that mains voltage is disconnected before proceeding!

(*) installation box required!

1 cut out concrete wall

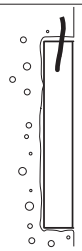




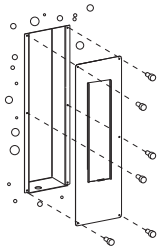
mini side LED outdoor = only floorwasher!

2 installation concretebox

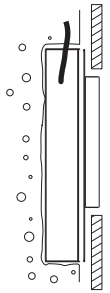
fold the installation box



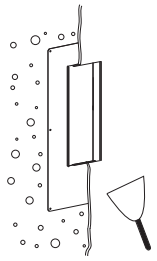
place the installation box in the cut-out



mount plaster kit on concrete box



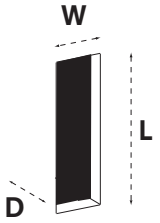
install with upright border to the front



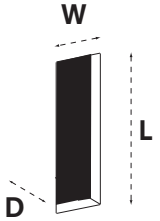
plaster and paint the wall

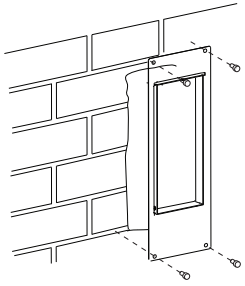
Name	Reference	L x W x D
Mini Side	kr99265x / kr97265x	215 x 70 x 80
Mini Side LED	kr99285x /kr97285x	215 x 70 x 80
Mini Side LED outdoor	kr97205x	215 x 70 x 80

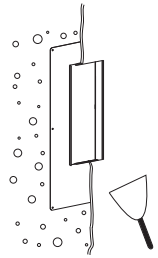
3 cut out plasterboard wall



4 cut out + installation brick wall







plaster and paint the wall

Name	Reference	L x W x D with plasterkit
Mini Side	kr99265x / kr97265x	390 x 120 x 75
Mini Side LED	kr99285x /kr97285x	390 x 120 x 75
Mini Side LED outdoor	kr97205x	390 x 120 x 75

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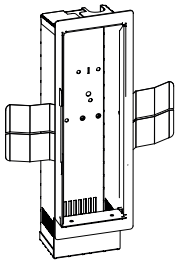
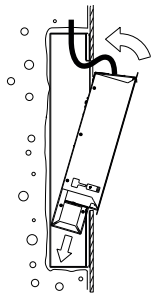
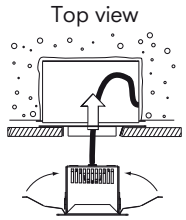
5 connection



connect appliance to correct voltage

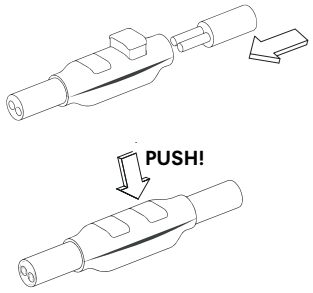




fold the springs inward

insert the appliance

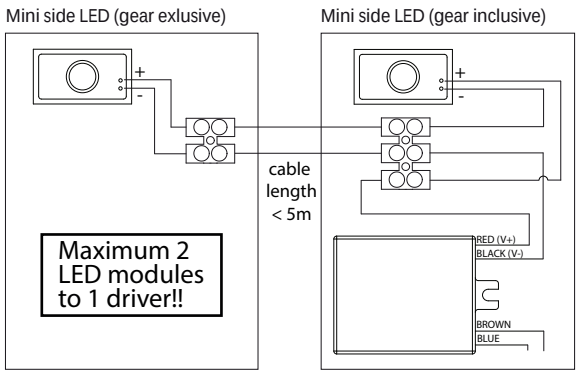
- Mini side LED outdoor wiring instructions
  connect brown wire of driver to V+ of supply voltage, connect blue wire of driver to V- of supply voltage using the attached IP67 connector. Pay attention to polarity!



If present, strip the outer jacket over the appropriate length. Push the wire into the IP67 connector exactly half way. Push down the button. Visually check the termination

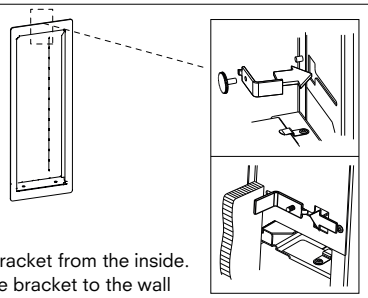
Name	Reference	Voltage
Mini Side	kr99265x / kr97265x	12V /230V
Mini Side LED	kr99285x / kr97285x	700mA/230V
Mini Side LED outdoor	kr97205x	230V

- Mini side LED (gear exclusive) wiring instructions

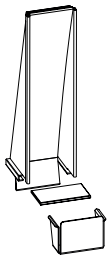


Connect the mini side LED (gear exclusive) to the mini side LED (gear inclusive) following the above scheme. Pay attention to polarity!

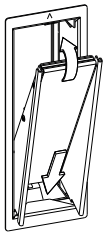
6 installation



insert bracket from the inside. slide the bracket to the wall and fix with the screw.

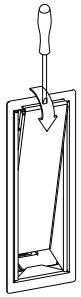


insert the glass and lampholder bracket into slit



insert the reflector, underside first. use plastic gloves

picture



different reflectors are possible.
to remove the reflector use a screwdriver

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electrical connection of current driven LEDs

calculating total power of LED-driver system

ALWAYS CHECK PRODUCT MANUAL!!

$P_{tot} = n \times P_{led}$
$P_{driver} \geq P_{tot}$
$I_{led} = I_{driver}$

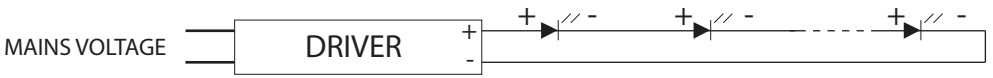
n = number of LEDs
P_{driver} = power of driver (Watt)
P_{led} = power of LED (Watt)
P_{total} = total power of all LEDs (Watt)

I_{led} = LED current (mA)
I_{driver} = Driver current (mA)

1 | theory

in case of connecting 1 LED

in case of connecting multiple LEDs

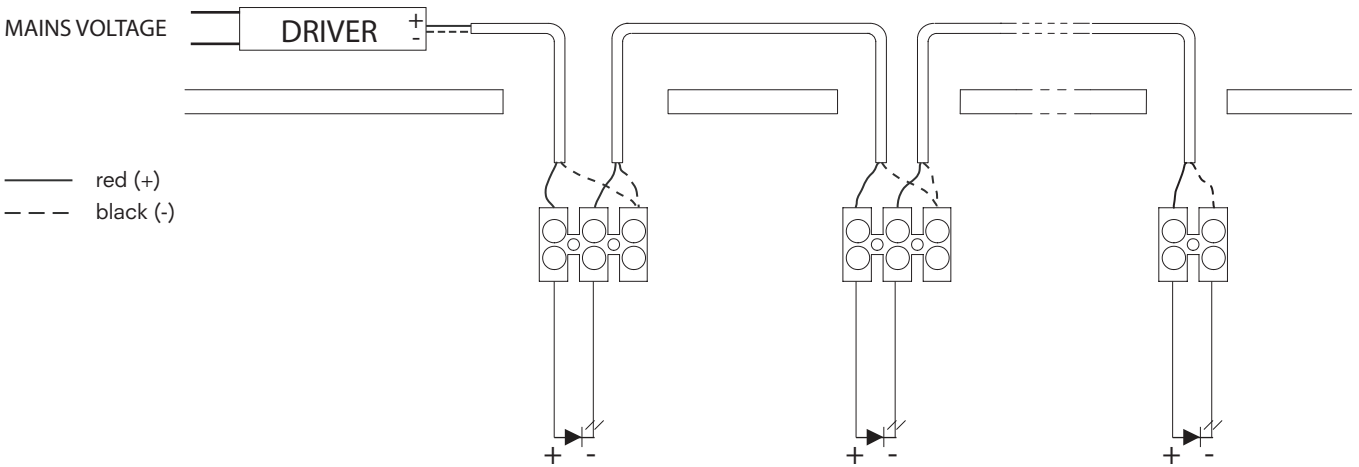


IMPORTANT NOTE (in both cases)

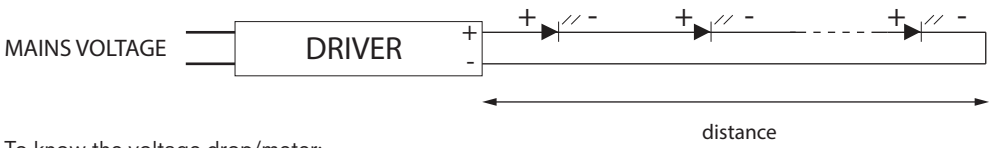
- mind the polarity of the LED!(*)
  + = red
  - = black
- make sure the driver hasn't been powered for at least 1min. prior to connecting the LED string
- check your driver: if the driver is switchable, make sure you set the right current (same current as LED).
  the use of a too high current will damage the LEDs

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

example of connecting multiple LEDs



2 | connection



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 may induce RFI

V drop/meter*		Ledcurrent		
		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 driver-LED