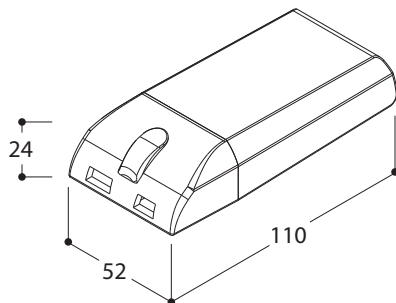


ref 930553
 name POWERLED CONVERTOR REMOTE 1x 500mA 1-10V DIMM

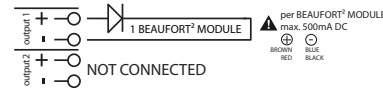
! Always disconnect the mains of the converter before plugging or unplugging the LEDs !



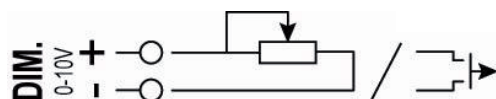
Wiring diagram

The maximum secondary wire length is 10mtr (at max. power)

Connection scheme single output

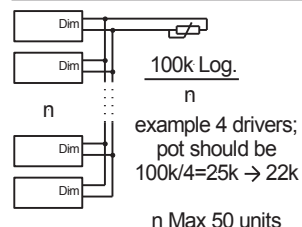


Connection schema for DIM input:



DIM-input can be controlled with:
 a standard 1-10V controller (range 0-100%),
 a 100k potentiometer (range 0-100%) and
 a pulse switch (range 3-100%). A short pulse switches the LEDs on or off.

When using more drivers on one dimmer (pot.meter only):



Specifications

Driver type:	Constant Current
Output power range:	20W max.
Output current range:	500 mA
Output voltage range:	3-43 Vdc
Input voltage & frequency:	110-240 Vac / 50/60 Hz / 150-250 Vdc
Dimming:	1-10 V, potentiometer 100K log b, pulse (SELV)
Minimum dim level:	15 mA - off
Efficiency:	85 %
Power factor:	0.9
Peak inrush current:	1.25 A
Output current tolerance:	5 %
Maximum ripple current:	< 1%
Open circuit output voltage:	43 Vdc
Output isolation:	SELV
Surge protection (diff. / comm.):	2 kV / 6 kV
IP classification:	20
Ambient temperature range (Ta):	-20 to +50°C
Maximum case temperature (Tc):	< 85°C
Rated circuit lifetime:	50,000 hrs at Tc Max.
Certificates and standards:	ENEC05 / CE / EN55015 / EN61000-3-2 / EN61347-2-13 / EN61347-1 / EN61547 / EN62384 / SELV
Classifications:	II
Warranty:	5 years
Dimensions:	110 x 52 x 23.5 mm
Weight:	100 g
Storage temperature range:	-20 to +50°C



Unexpected behaviour when using 1-10V controller system:
 When controlling the driver with a 1-10V system it can occur that the 1-10V controller delivers (or allows) a spike that is higher than 12V. The spike triggers the driver in to 'pulse switch mode'. This will result in unexpected and unintended behavior of the LEDs.
 In case of symptoms like these, it is sufficient to clamp the output of the control system with a 10 or 12V zener diode. (cathode connected to the positive)

Disorganized system when using pulse function:
 When parallel connecting a pulse switch on several drivers it can occur that the pulse length is exactly too short or too long. On this critical border it can be that the drivers are not working in unison. It can be reset without disconnecting the mains power.
 Reset procedure: By long pressing the pulse switch the drivers always turns on, independently of the initial state.
 Give a short pulse and all the drivers are now off. By long pressing again all drivers turn on and ramp up in unison.

We recommend pulse operation mainly for fixtures in which each driver is regulated independently.

Complete synchronous regulation isn't processed in the driver.