# SYSTEM DOCUMENTATION VINCI SYSTEM

### **VINCI SYSTEM**

Description	Smart controleable replacement bulbs. The data is send over 2 wire AC cables by proprietary controller and protocol.
Basic system components	Controller - Bulbs - Wiring - Smartphone APP
Supported bulbs	Vinci bulbs
Coexistence with non-Vinci bulbs (tungsten, halogen,)	This depends on the type of bulbs. Should be tested
Voltage	220-240Vac 50 +-1Hz

#### **VINCI BULBS**

Independently addressable bulbs	Max 128 Vinci bulbs with a unique ID. More bulbs can be used but several bulbs will share the same ID. Vinci controller can control each individual bulb with specific colors
Setting ID of bulbs	Automatic procedure: bulbs receive a new ID when inserted into a socket. Bulbs store their ID in non- volatile memory
Color control	4 control channels per bulb ( Red, Green, Blue, Filament or White)

#### **DATA PROTOCOL**

Communications speed	25 FPS for all bulbs (DMX compatible speed) 128 x 4 control channels (channel assignment depends on bulbs type eg RGBW)
Communications dataprotocol from controller to bulbs	Proprietary Power-line Communication protocol
External noise	Noise on the AC powerline can cause data errors or malfunctions. Noise can be harmonic distorsion, voltage spikes, low or high frequency noise, We advice a clean AC power source. In case of noise proplems,a filters can be used. Or in the worst situations an online UPS should be used.

#### WIRING AND MAX CAPACITY

## **DATA TERMINATOR**

Terminator or end stop	It is mandatory for the data reception to use a data terminator at the end of the wiring. The data terminator (V-DT1-EU) is a schuko plug with built-in terminator circuit.