stick
SUNLITE TOUCH-SENSITIVE INTELLIGENT CONTROL KEYPAD

	Sunlite Touch-sensitive Intelligent Control Keypad	**Ref. STICK-KE1**	**Page 1/4**
	Technical datasheet	Revision date 16 May 2012 · www.nicolaudie.com	Version 1.0

128 mm

168 mm

11,5 mm

Touch-sensitive user interface

Extension socket rear connectors (2x10 pins)

Ethernet socket (RJ45)

Screw-terminal rear connector (9 pins)

Front access connections (open cover)

reset button · mini USB · power led · on / off switch · micro sdcard · data led

Package	Interface, sdcard, datasheet, cdrom, usb cable
Software	ESA + ESA PRO on PC/Windows, ESA2 on PC + MAC
Application	ARCOLIS + STICK REMOTE on iPhone/iPad/Android
Available colors	Frame (black or white), use the Stick Design Configurator web site
Options	Dedicated remote control **(*)**, Power supply **(*)**
Standards	EC, EMC, ROHS, ETL, UL (some are in process)
Image size	Standard 150x110mm picture, contact us for a sample profile
Temperature	-10ºC to 50ºC
Dimensions	168x128x11,5 mm Complete package 250x150x55 mm
Weight	0,2 kg 0.44 lbs Complete package 0,6 kg 1.32 lbs

SPECIFICATIONS / CONNECTIONS

		Built-in features	screw-terminal rear connector (9 pins)	extension socket rear connectors (2x10 pins)	front access connections (open cover)
Power Supply	9V DC 0.65A, supplied		•		USB
DMX Output #1	First universe, 512 channels DMX512 output		•	•	
DMX Output #2	Second universe, 512 channels DMX512 output **(*)**			•	
USB	USB 2.0 communication for PC/software				•
Ethernet	Advanced networking features	•			
Ports 1,2,3,4	4 Contact closure inputs, connect to ground for operating		•	•	
Ports 5,6,7,8	4 Contact closure inputs, connect to ground for operating			•	
User interface	14 buttons, 1 fader, 28 leds (Touch-sensitive keypad)	•			power/data leds
SDCARD	Micro sd card for stand alone memory use (supplied)				•
RESET	Push button for reset operation				•
RS232	RS232 Serial communication for external synchronisation			•	
Output relay	Automatic Stand by 5V signal			•	
Clock	Real time clock and calendar, 10 minutes saving without power	•			
Infrared receiver	Easy learning triggering from any 36Khz remote control	•			

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EASY INSTALLATION

PORT 1,2,3,4 : If your application need to have some external contact closures, make the contacts between the ground and the ports

1. Mount an electrical box inside the wall

The S.T.I.C.K. controller can be installed in any standard electrical backbox. If you use a double size box, you can insert the power supply inside.
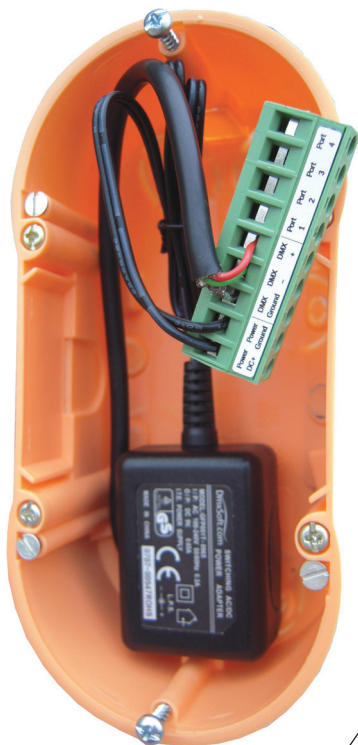
2. Connect the wires

DMX: Connect the DMX cable to the lighting receivers (Leds, Dimmers, Fixtures..)
(for XLR: 1=ground 2=dmx- 3=dmx+)

POWER: Connect a 9V DC 0.65A.
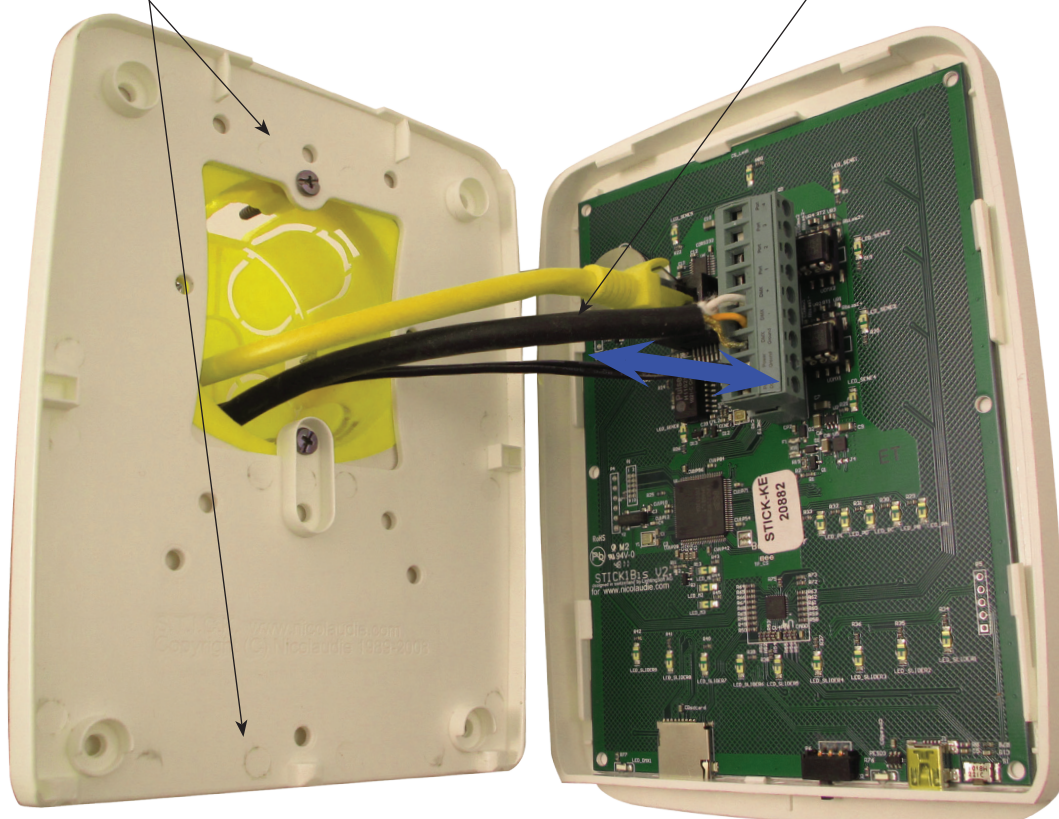Be sure to not invert the + and the ground.
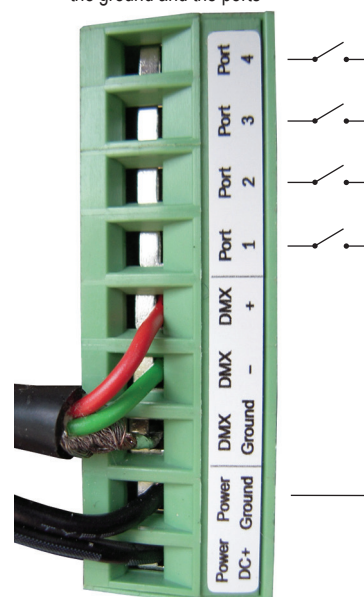
3. Mount the interface on the wall

First, mount the back side of the interface on the wall with 2 or more screws

Secondly, plug the 2 connectors (see blue arrow)

Then, close the interface, using one screw

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2x10 pins EXTENSION connector

P3

RS232_TX	1	2	GND_DMX
RS232_RX	3	4	DMX1-
PORT7	5	6	DMX1+
PORT6	7	8	DMX2-
PORT5	9	10	DMX2+
PORT4	11	12	Relay
PORT3	13	14	3.3V
PORT2	15	16	IR_RX
PORT1	17	18	GND
PORT0	19	20	VIN

Compatible connectors:
WURTH ELEKTRONIK ref: 61301021121
MOLEX ref: 10-89-7202
TE Connectivity ref: 1-87227-0
FCI ref: 77313-101-20LF
HARWIN ref: M20-9981046
SAMTEC ref: TSW-110-xx-T-D
FARNELL ref: 1841232
RS ref: 763-6754 673-7534 251-8165
MOUSER ref: 538-10-89-7202
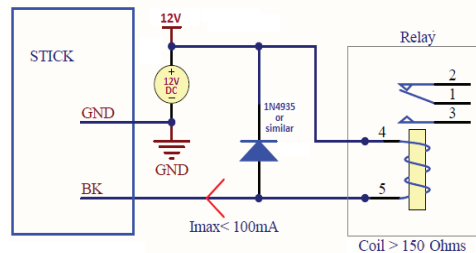DIGIKEY ref: WM26820-ND
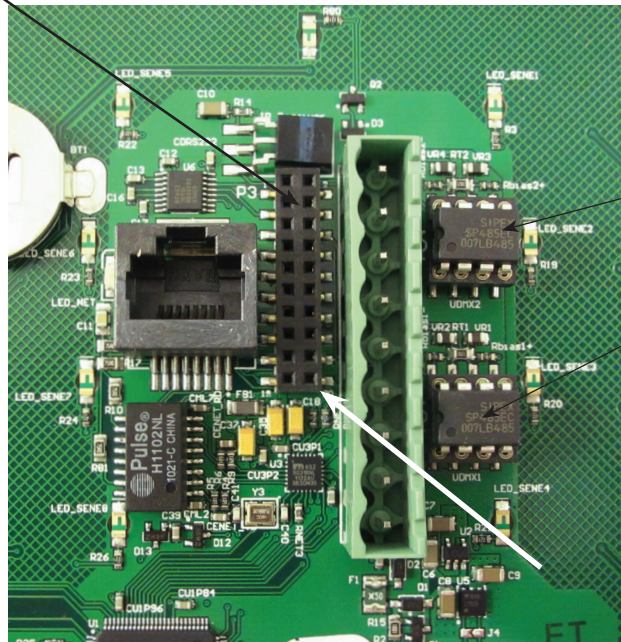
You can easily replace DMX CHIPS

DMX universe #2

DMX universe #1

Ref:
SP485ECP-L
MAX485CPA+

PORTS 1 to 8   make contacts
between G (GND) and P1..P8

BLACKOUT relay (energy save)
using the 2 pins : BK and G (GND)

STICK
12V
12V DC
GND
GND
BK
1N4935 or similar
Imax< 100mA
Relay
2
1
3
4
5
Coil > 150 Ohms

Example of relay : FINDER
Ref. 22.23.9.012.4000
http://www.findernet.com/fr/products/profiles.php?serie=22&lang=en

RS232 triggering

Make a cable using the 3 pins : TX, RX and G (GND)
Set the RS232 parameters to : 9600bds 8 bits, no Parity, 2 Stop bits

- To play a scene, send 3 bytes :	**1**	**x**	**255**	(x = scene number)
- To stop a scene, send 3 bytes :	**2**	**x**	**255**	(x = scene number)
- To pause a scene, send 3 bytes :	**3**	**x**	**255**	(x = scene number)
- To release a pause, send 3 bytes :	**4**	**x**	**255**	(x = scene number)
- To reset a scene, send 3 bytes :	**5**	**x**	**255**	(x = scene number)

Note: the scene number (x) can be from 1 to 40. For instance, 11 means Page B Scene #3

SOFTWARE and LINKS

ARCOLIS sofware (iPhone/iPad)	http://itunes.apple.com/en/app/arcolis/id495161115?mt=8
ARCOLIS software (Android)	https://play.google.com/store/search?q=arcolis
ESA, ESAPRO software (Windows)	www.nicolaudie.com (-> Support -> Downloads)
ESA2 software (Windows, Mac)	www.nicolaudie.com (-> Support -> Downloads)
ESA, ESAPRO manuals	www.nicolaudie.com/manuals.php
STICK REMOTE	www.lightingsoft.com

Remote application for iPhone/iPad, Android, Windows

Driver, Firmware, Tools	www.nicolaudie.com/hardware.php
STICK Forum	www.nicolaudie.com/forum_support
STICK design configurator	www.nicolaudie.com/stick_config

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Some functions are available directly from the STICK keypad using the SELECT button.
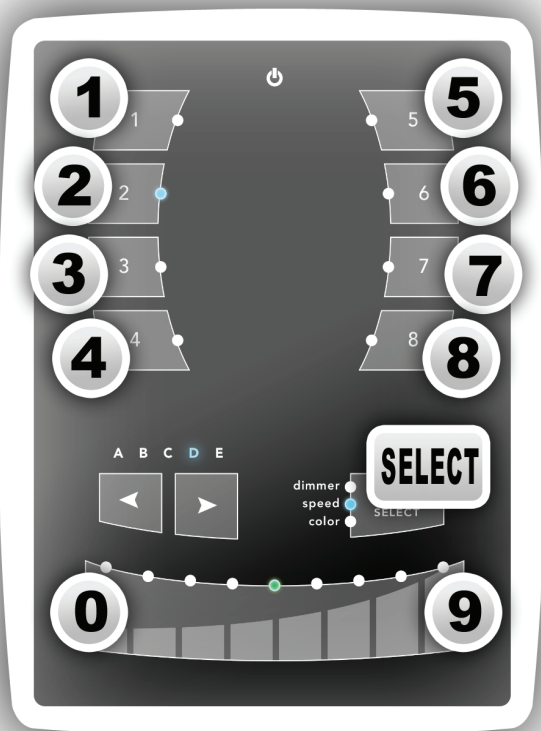
⚠ WARNING

🕒 = 3:30pm

3:30pm = 15:30

15:30 = **1530**

📅 = 5 DEC 2008

5 DEC 2008 = **051208**

SELECT + 1	View time	Example : view 2:45pm = 14:45 = 1445	**1445** = 2:45pm (USA) or 14:45 (Europe)
SELECT + 2	View date	Example : view 6 SEP. 2009 date = 060909	**060909** = September 6th 2009
SELECT + 3	Set time	Example : set 3:30pm = 15:30 = 1530	1 5 3 0 = **1530**
SELECT + 4	Set date	Example : set 5 DEC 2008 date = 051230	0 5 1 2 0 8 = **051208**
SELECT + 5	Set Fade time	Example : set 01'32" fade time = 1 minute and 32 seconds = 0132	0 1 3 2 = **0132**
SELECT + 9	Set IR	Example : assign an IR key to Scene #2	2 +
SELECT + 0	Firmware version	Example : view 1.02 firmware version = 0102	**0102** = firmware version **1.02**