ALDABRA
PROFESSIONAL EXTERIOR LIGHTING

ALDABRA
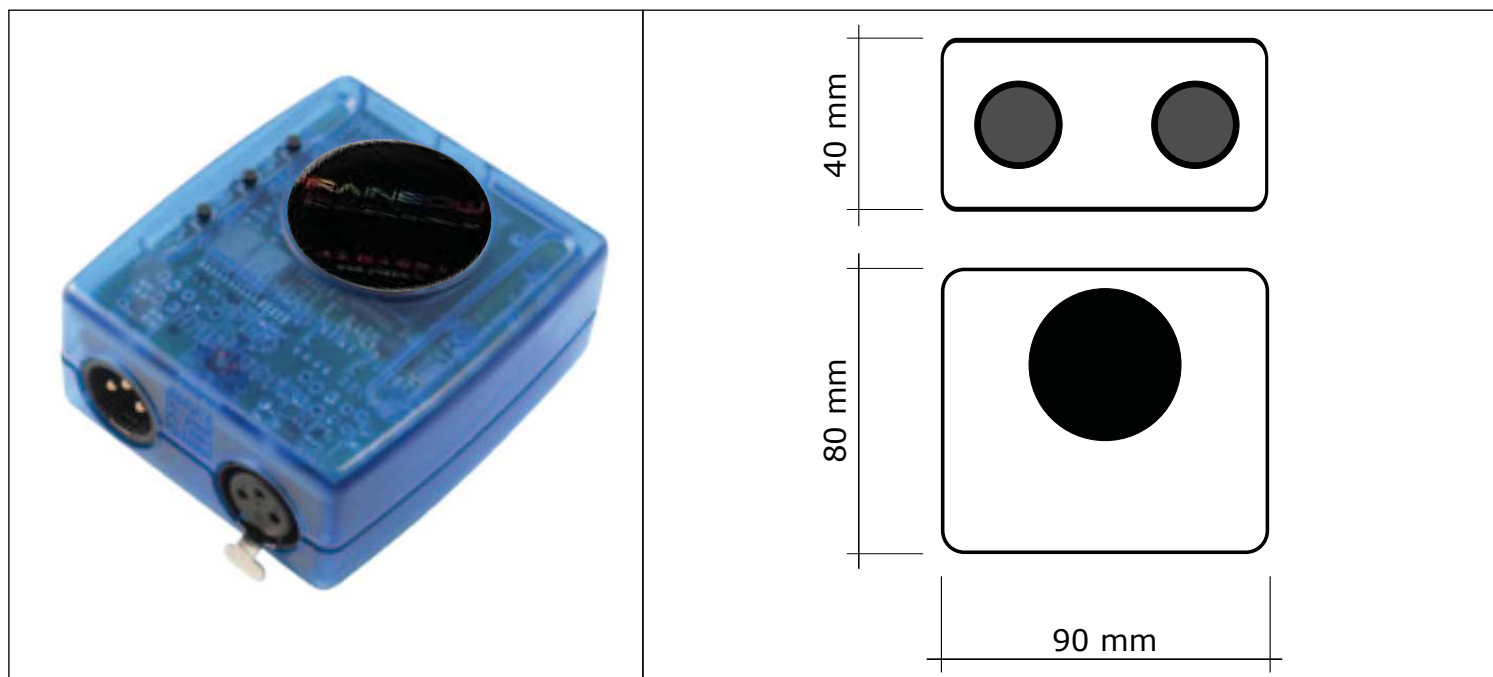PROFESSIONAL INTERIOR LIGHTING

ECG.0001.0
DATA-SHEET

40 mm

80 mm

90 mm

PRODUCT DESCRIPTION:

Rainbow DMX control gear USB version offers the best suitable controller for DMX lighting.

TECHNICALS FEATURES:

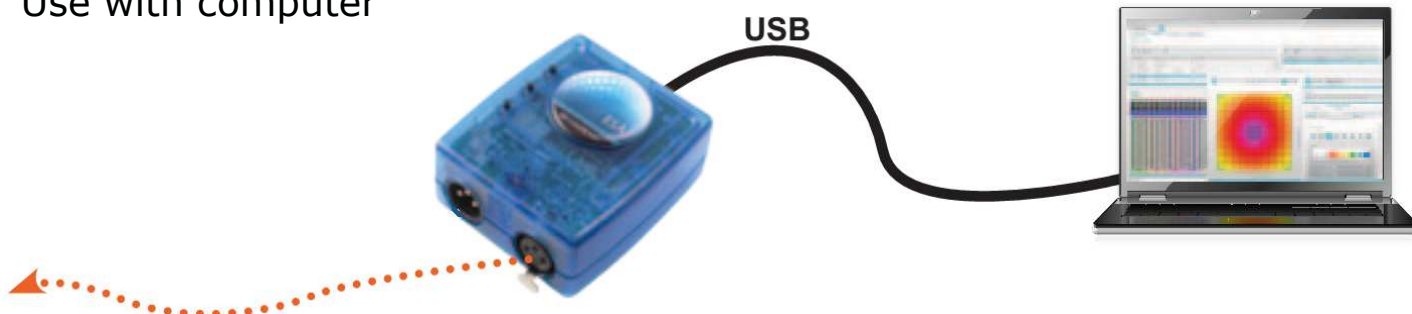|	
power supply	USB mini connector ; plug&play power supply 110-240Vac 50/60Hz via USB
output signal	DMX 512
working temperature	0 ÷ 50 °C
protection class	IP20
dimensions (LxWxH)	80x90x40 mm
weight	125g
package	AC/DC adapter, CDrom, USB cable
OS requirement	Mac OSx 10.6/10.7/10.8 - Windows XP/VISTA/SEVEN/8 32/64 bits and USB 2.0
buttons	2 buttons to change scene (previous/next) + 1 button to change dimmer

MAIN FEATURES

COMPUTER: USB connection
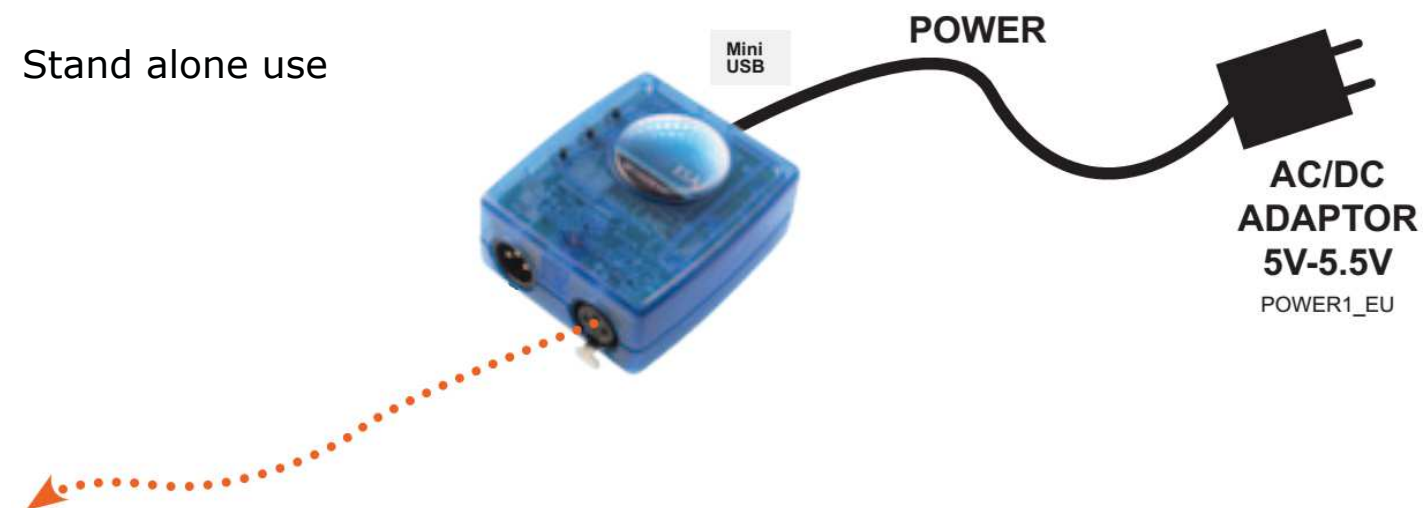STAND ALONE: 512 DMX channels, 255 scenes, 1 zone, stand Alone memory 64K

IP20 III CE
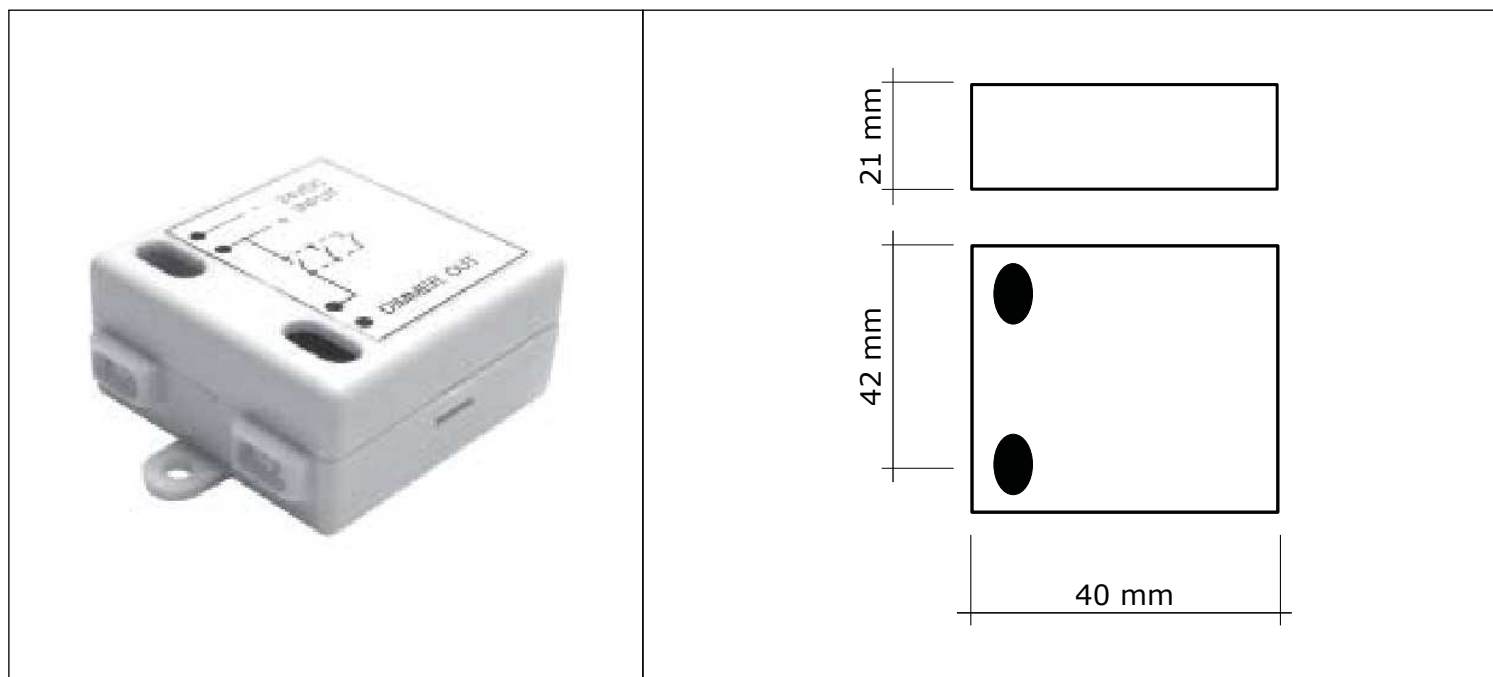
10851.180927

ALDABRA
PROFESSIONAL EXTERIOR LIGHTING

ALDABRA
PROFESSIONAL INTERIOR LIGHTING

Use with computer

USB

Stand alone use

POWER

Mini USB

AC/DC ADAPTOR 5V-5.5V

POWER1_EU

ECG.0002.0
DATA-SHEET

21 mm

42 mm

40 mm

PRODUCT DESCRIPTION:
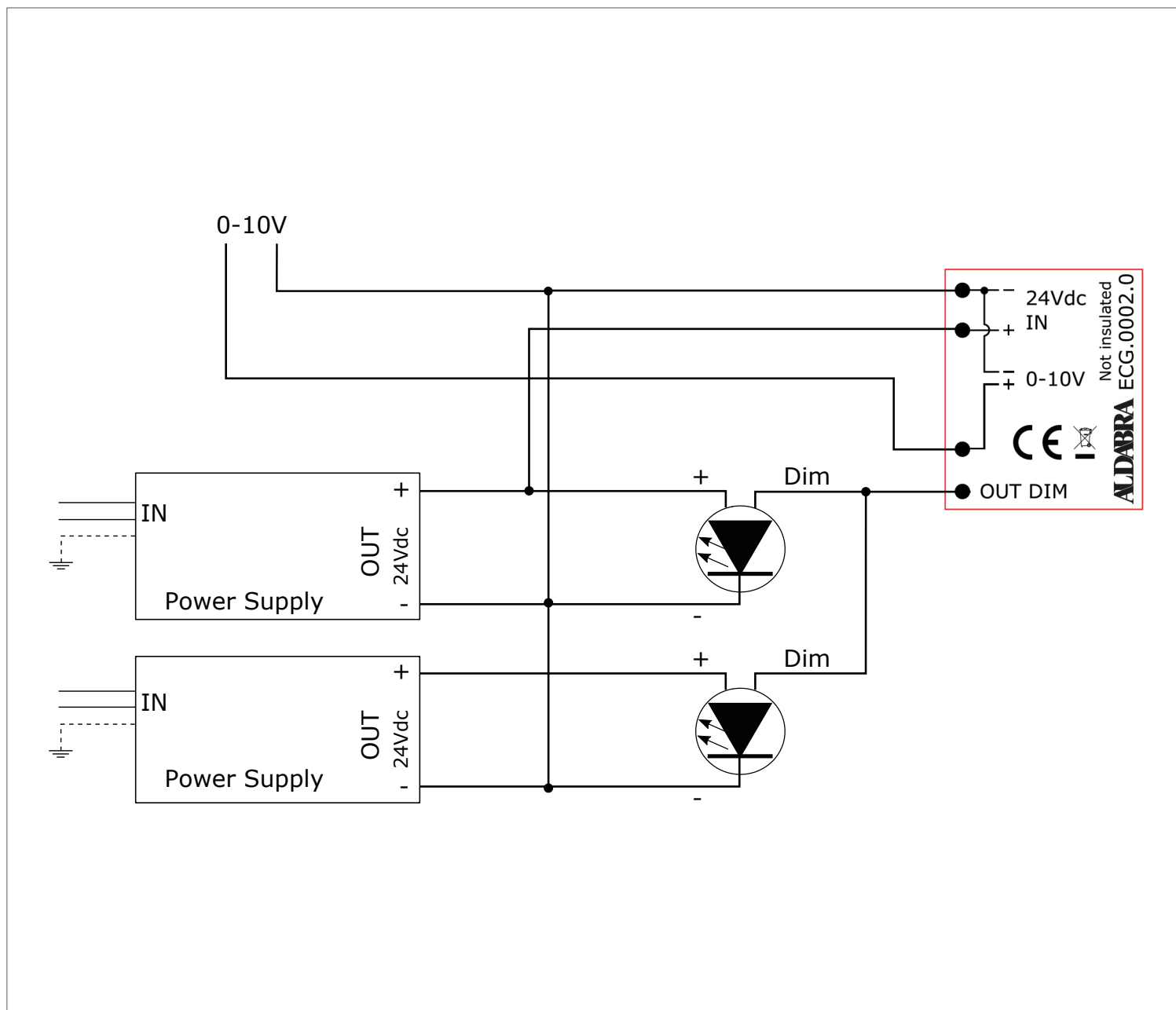
Dimmer for linear system, spot and downlights family.
This device is suitable for 24Vdc supply fixtures.

TECHNICALS FEATURES:

power supply	24 Vdc
max output current	1 channels max 1A
control input	0-10V
dimming range	0,1%-100%
working temperature	-20 ÷ 40 °C
expected lifetime	>100000h
protection class	IP20
max connecting wire cross section	1,5 mm²
dimensions (LxWxH)	40x42x21 mm
weight	40g

IP20 III CE

10849.180924

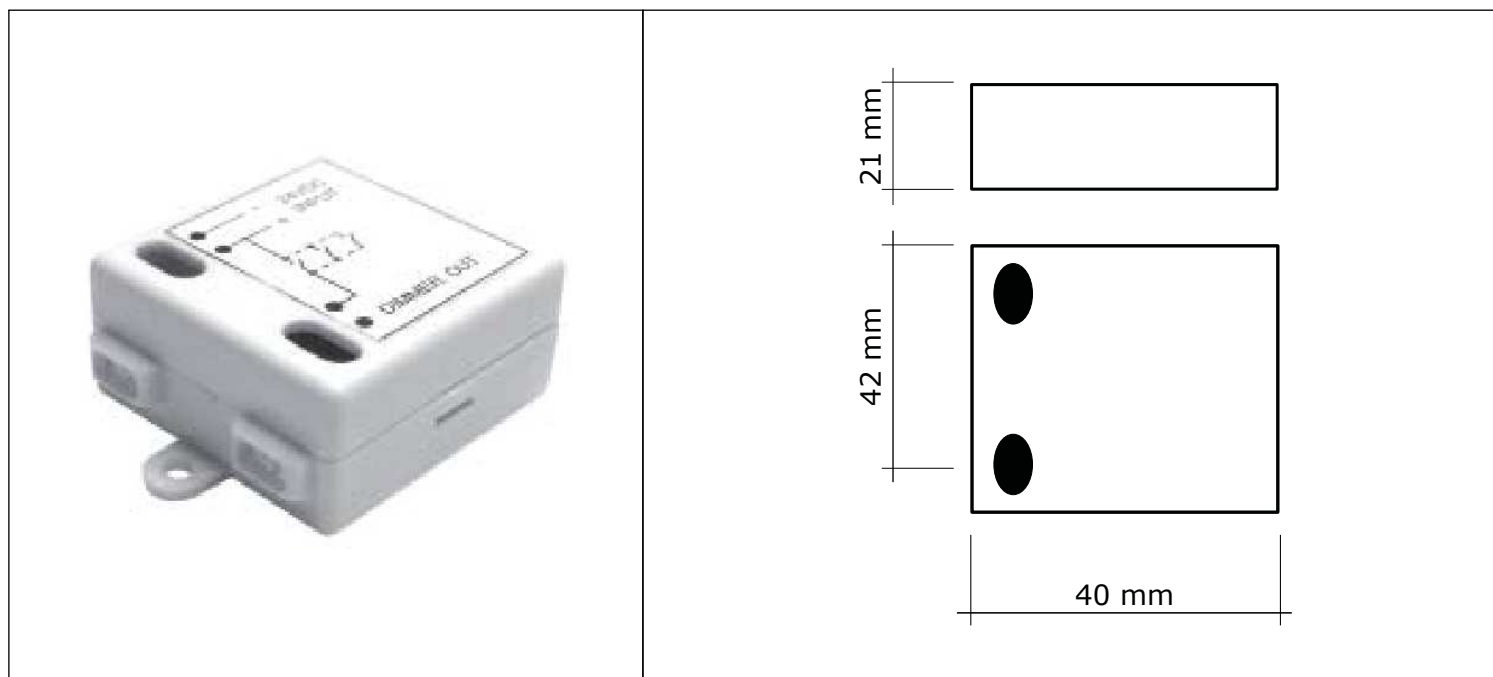ALDABRA — PROFESSIONAL EXTERIOR LIGHTING

ALDABRA — PROFESSIONAL INTERIOR LIGHTING

OPERATING MODE:

Can use a commercial active dimmer 0-10V or a control gear with ouput 0-10V double insulated from the mains.

10849.180924

ALDABRA PROFESSIONAL EXTERIOR LIGHTING

ALDABRA PROFESSIONAL INTERIOR LIGHTING

21 mm

42 mm

40 mm

PRODUCT DESCRIPTION:
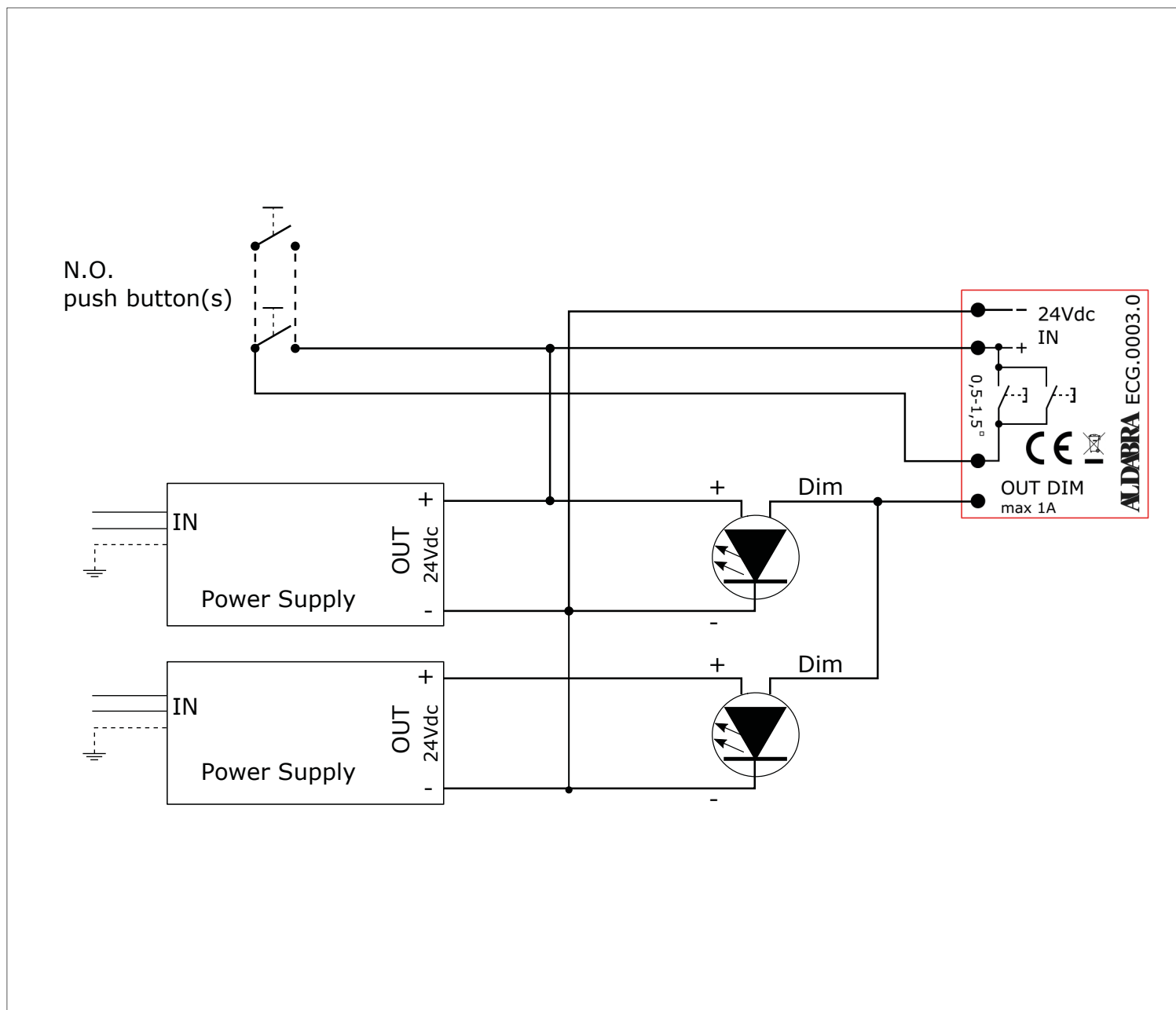
Dimmer for linear system, spot and downlights family.
This device is suitable for 24Vdc supply fixtures.

TECHNICALS FEATURES:

power supply	24 Vdc
max output current	1 channels max 1A
control input	Push button N/O
dimming range	0,1%-100%
working temperature	-20 ÷ 40 °C
expected lifetime	>100000h
protection class	IP20
max connecting wire cross section	1,5 mm²
dimensions (LxWxH)	40x42x21 mm
weight	40g

IP20 III CE

10848.180924

N.O.
push button(s)

24Vdc
IN

0,5-1,5"

CE

ALDABRA ECG.0003.0

OUT DIM
max 1A

IN

OUT 24Vdc

Power Supply

+

-

+

Dim

-

IN

OUT 24Vdc

Power Supply

+

-

+

Dim

-

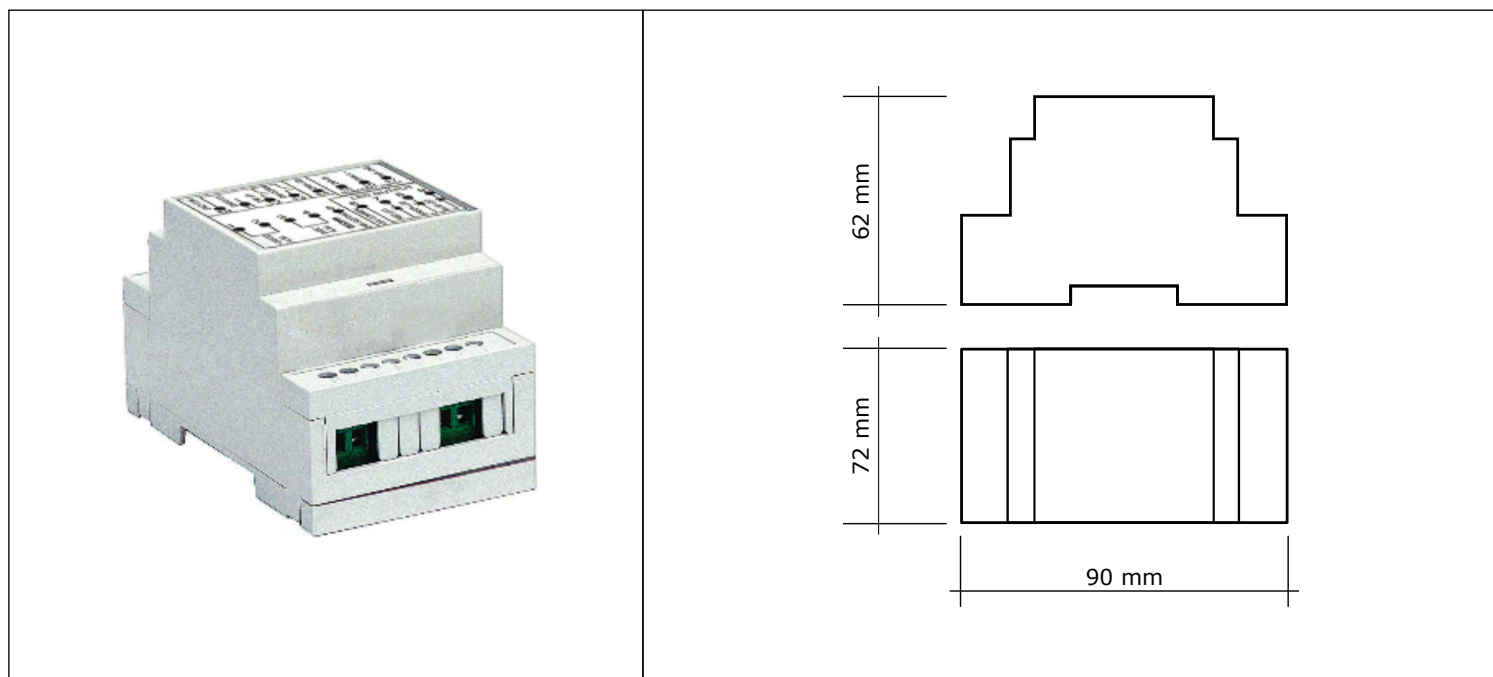## OPERATING MODE:

"Soft Start" for a smoothness ON and OFF of the light, parallel connection for normally open push buttons.
ON and OFF of the light by push function, press and hold for a fade in and out of the light.
Save of the light output level in case of black-out.

10848.180924

ECG.0005.0
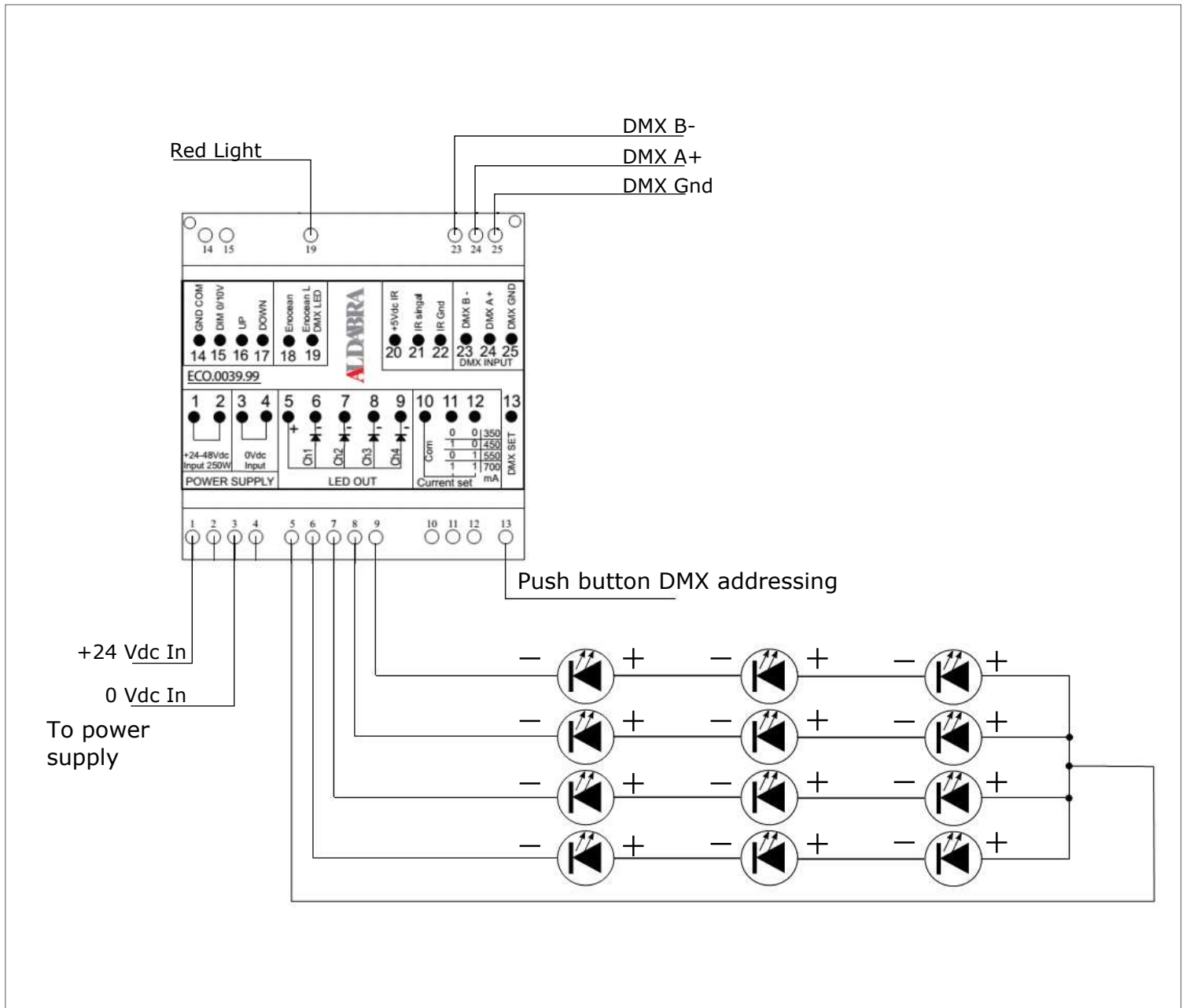## DATA-SHEET

62 mm

72 mm

90 mm

PRODUCT DESCRIPTION:

Dimmer for linear system, spot and downlights family.
This device is suitable for constant current 500mA supply fixtures.

TECHNICALS FEATURES:

power supply	24 Vdc
max output current	4 channels 350 mA each channel
max ouput power	30 W (max 7 LED each channel)
control input	DMX standard USITT512 (RDM 2.0 compatible) self learning, addressing mode
dimming range	0%-100%
working temperature	-10 ÷ 54 °C
max case temperature	65 °C
expected lifetime (at Tc<=75°C)	>100000h
protection class	IP20
max connecting wire cross section	1,5 mm²
installation	DIN bar mounting
dimensions (LxWxH)	90x72x62 mm
weight	120g

IP20   III   CE

10821.180924

Red Light

DMX B-

DMX A+

DMX Gnd

Push button DMX addressing

+24 Vdc In

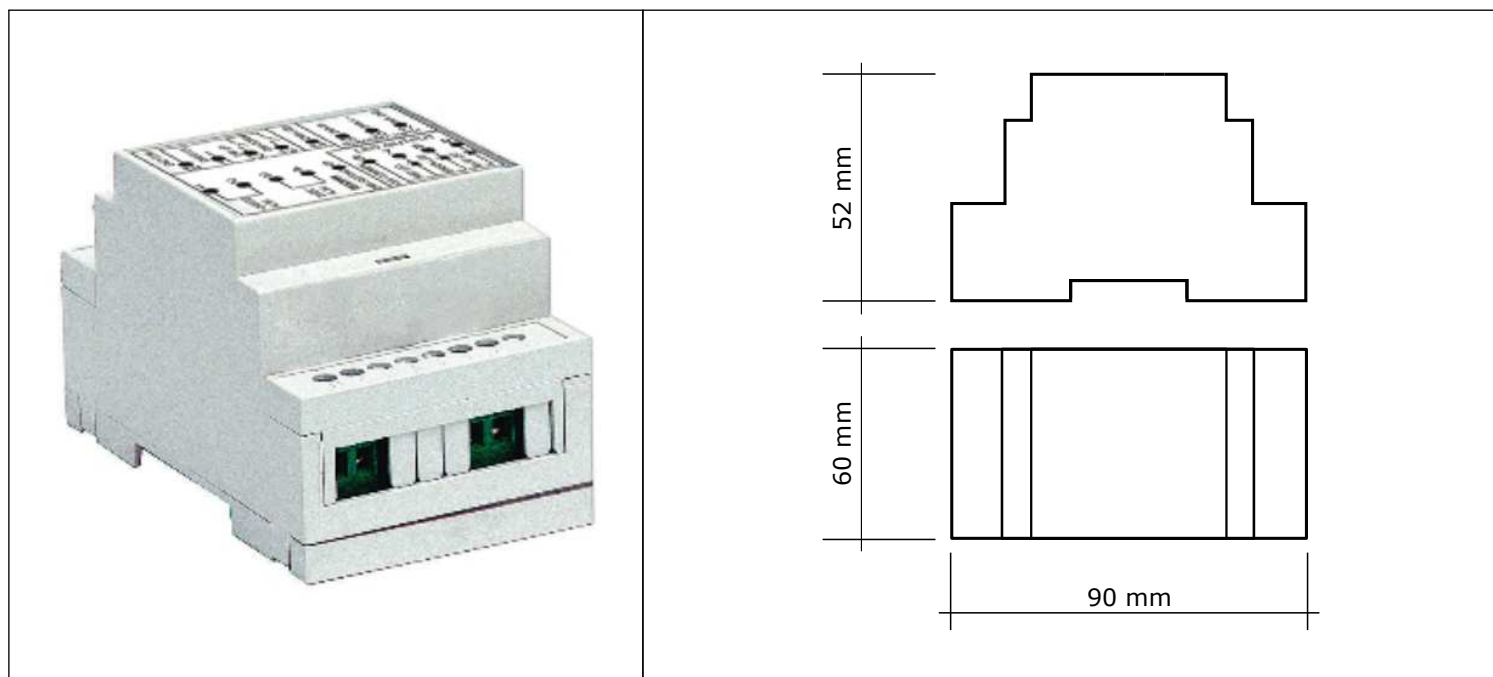0 Vdc In

To power
supply

OPERATING MODE:

To set DMX address connect the DMX generator to wire A and B, red light in position 19 will blink correctly if DMX is connected.
Set DMX generator to the max value on the desired channel,(for example channel 6=255) then push and hold DMX set button on the box in connector position 13.
The red LED on board stay on 3 second then blink to indicate the setting is complete.
Be careful that the A and B wires are properly connected.

Specifications are subject to change without notice.
www.aldabra.it
p. 2/2

10821.180924

ECG.0006.0
DATA-SHEET

52 mm

60 mm

90 mm

PRODUCT DESCRIPTION:

Dimmer for linear system, spot and downlights family.
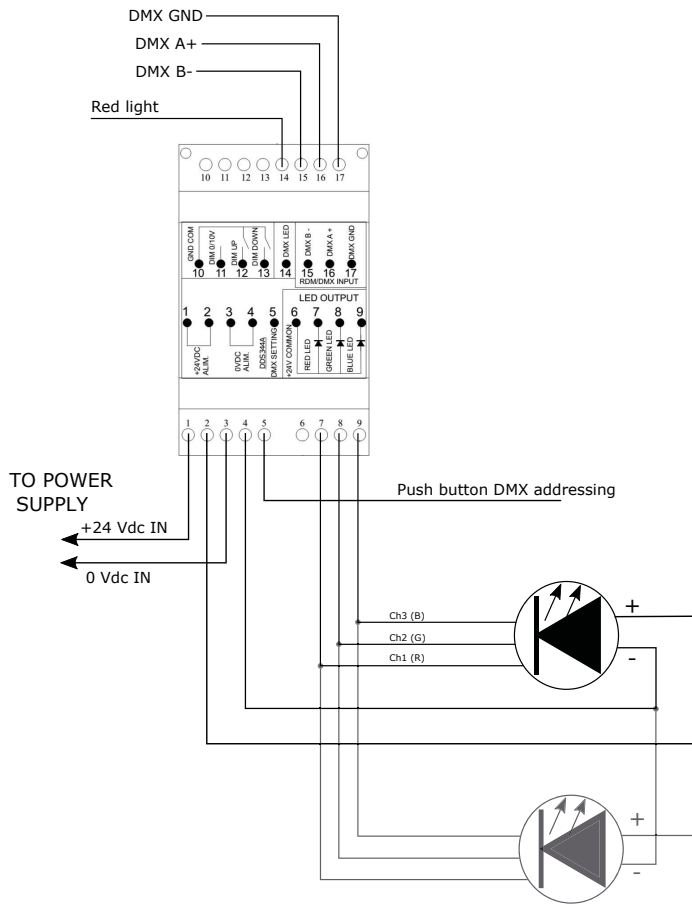This device is suitable for constant voltage supply fixtures.

TECHNICALS FEATURES:

power supply	24 Vdc
max output current	3 channels 2 A each channel
max ouput power	144 W (max 48 W each channel)
control input	DMX standard USITT512 (RDM 2.0 compatible) self learning, addressing mode
dimming range	0%-100%
working temperature	-10 ÷ 54 °C
max case temperature	65 °C
expected lifetime (at Tc<=75°C)	>100000h
protection class	IP20
max connecting wire cross section	1,5 mm²
installation	DIN bar mounting
dimensions (LxWxH)	90x60x52 mm
weight	100g

IP20 III CE

10823.180924

ECG.0006.0
DATA-SHEET

Fixtures with 5 cables

DMX GND
DMX A+
DMX B-
Red light

TO POWER SUPPLY

+24 Vdc IN
0 Vdc IN

Push button DMX addressing

Ch3 (B)
Ch2 (G)
Ch1 (R)

Fixtures with 4 cables

DMX GND
DMX A+
DMX B-
Red light

TO POWER SUPPLY

+24 Vdc IN
0 Vdc IN

Push button DMX addressing

Ch3 (B)
Ch2 (G)
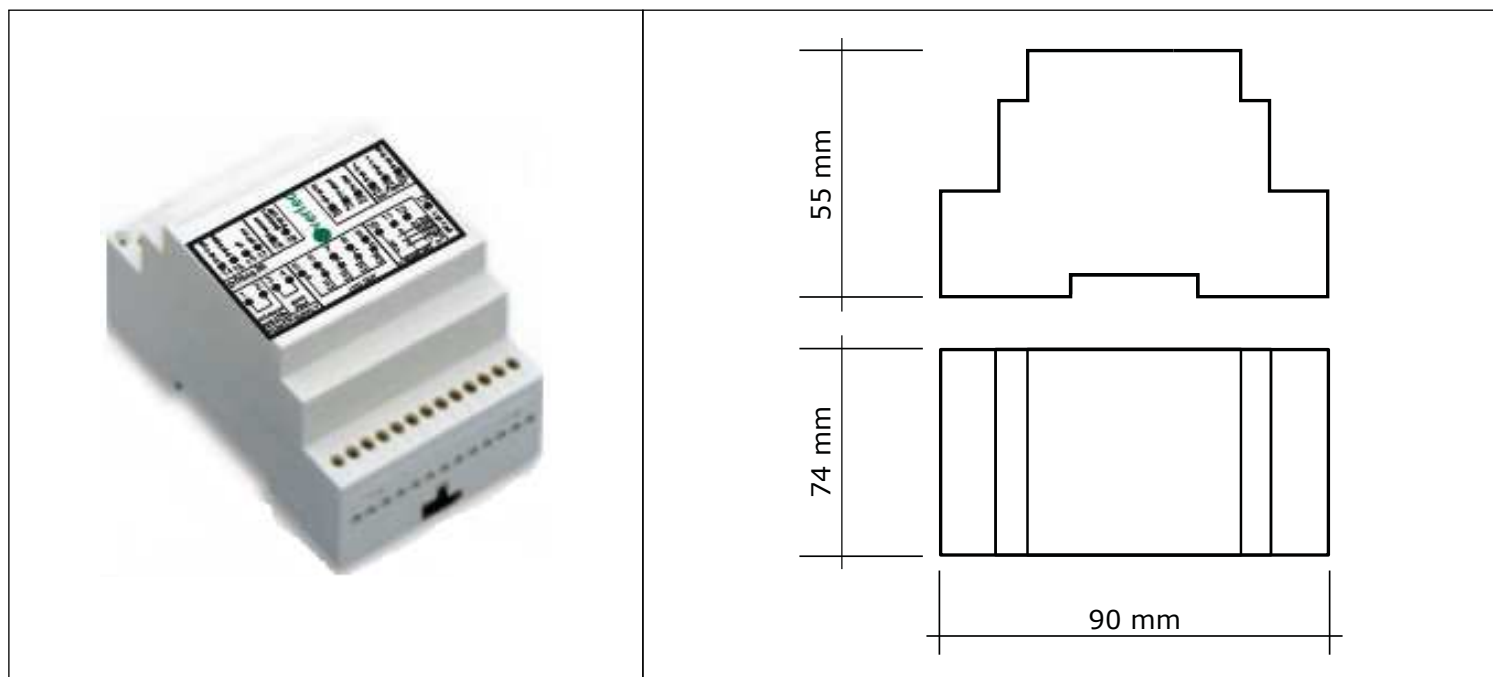Ch1 (R)

OPERATING MODE:

To set DMX address connect the DMX generator to wire A and B, red light in position 19 will blink correctly if DMX is connected.

Set DMX generator to the max value on the desired channel,(for example channel 6=255) then push and hold DMX set button on the box in connector position 13.

The red LED on board stay on 3 second then blink to indicate the setting is complete.

Be careful that the A and B wires are properly connected.

Specifications are subject to change without notice.
www.aldabra.it
p. 2/2

10823.180924

ALDABRA
PROFESSIONAL EXTERIOR LIGHTING

ALDABRA
PROFESSIONAL INTERIOR LIGHTING

ECG.0007.0
DATA-SHEET

55 mm

74 mm

90 mm

PRODUCT DESCRIPTION:

Dimmer for linear system, spot and downlights family.
This device is suitable for constant voltage supply fixtures.

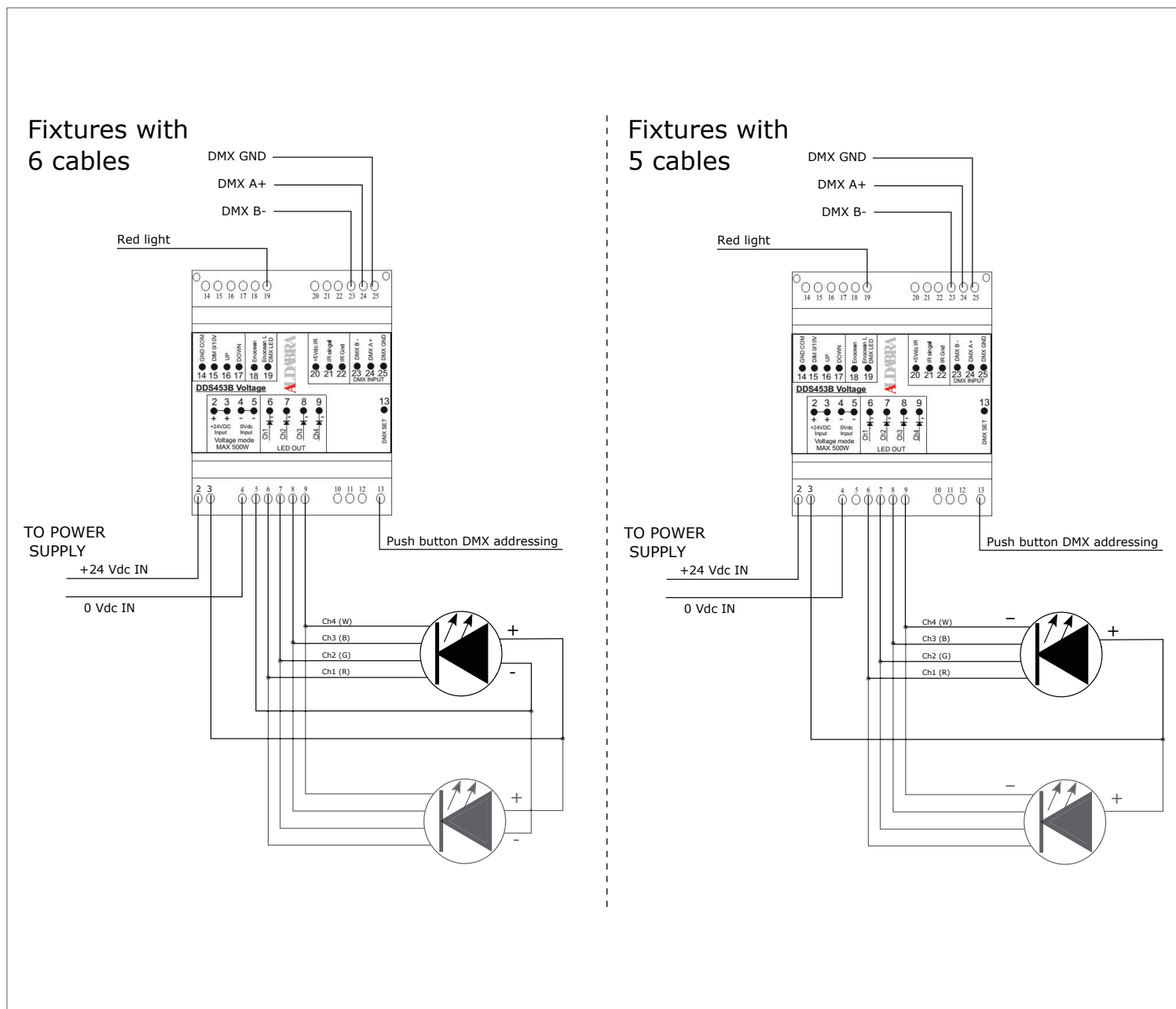## TECHNICALS FEATURES:

power supply	24 Vdc
max output current	4 channels 2 A each channel
max ouput power	192 W (max 48 W each channel)
control input	DMX standard USITT512 (RDM 2.0 compatible) self learning, addressing mode
dimming range	0%-100%
working temperature	-10 ÷ 54 °C
max case temperature	65 °C
expected lifetime (at Tc<=75°C)	>100000h
protection class	IP20
max connecting wire cross section	1,5 mm²
installation	DIN bar mounting
dimensions (LxWxH)	90x74x55 mm
weight	140g

IP20   III   CE

10524.180907

ALDABRA — PROFESSIONAL EXTERIOR LIGHTING

ALDABRA — PROFESSIONAL INTERIOR LIGHTING

Fixtures with 6 cables

DMX GND
DMX A+
DMX B-
Red light

DDS453B Voltage

LED OUT — Ch1 Ch2 Ch3 Ch4

MAX 500W — +24VDC Input / 0Vdc Input — Voltage mode

DMX SET

TO POWER SUPPLY
+24 Vdc IN
0 Vdc IN

Push button DMX addressing

Ch4 (W)
Ch3 (B)
Ch2 (G)
Ch1 (R)

Fixtures with 5 cables

DMX GND
DMX A+
DMX B-
Red light

DDS453B Voltage

LED OUT — Ch1 Ch2 Ch3 Ch4

MAX 500W — +24VDC Input / 0Vdc Input — Voltage mode

DMX SET

TO POWER SUPPLY
+24 Vdc IN
0 Vdc IN

Push button DMX addressing

Ch4 (W)
Ch3 (B)
Ch2 (G)
Ch1 (R)

OPERATING MODE:

To set DMX address connect the DMX generator to wire A and B, red light in position 19 will blink correctly if DMX is connected.

Set DMX generator to the max value on the desired channel,(for example channel 6=255) then push and hold DMX set button on the box in connector position 13.

The red LED on board stay on 3 second then blink to indicate the setting is complete.

Be careful that the A and B wires are properly connected.

ECG.0008.0
DATA-SHEET
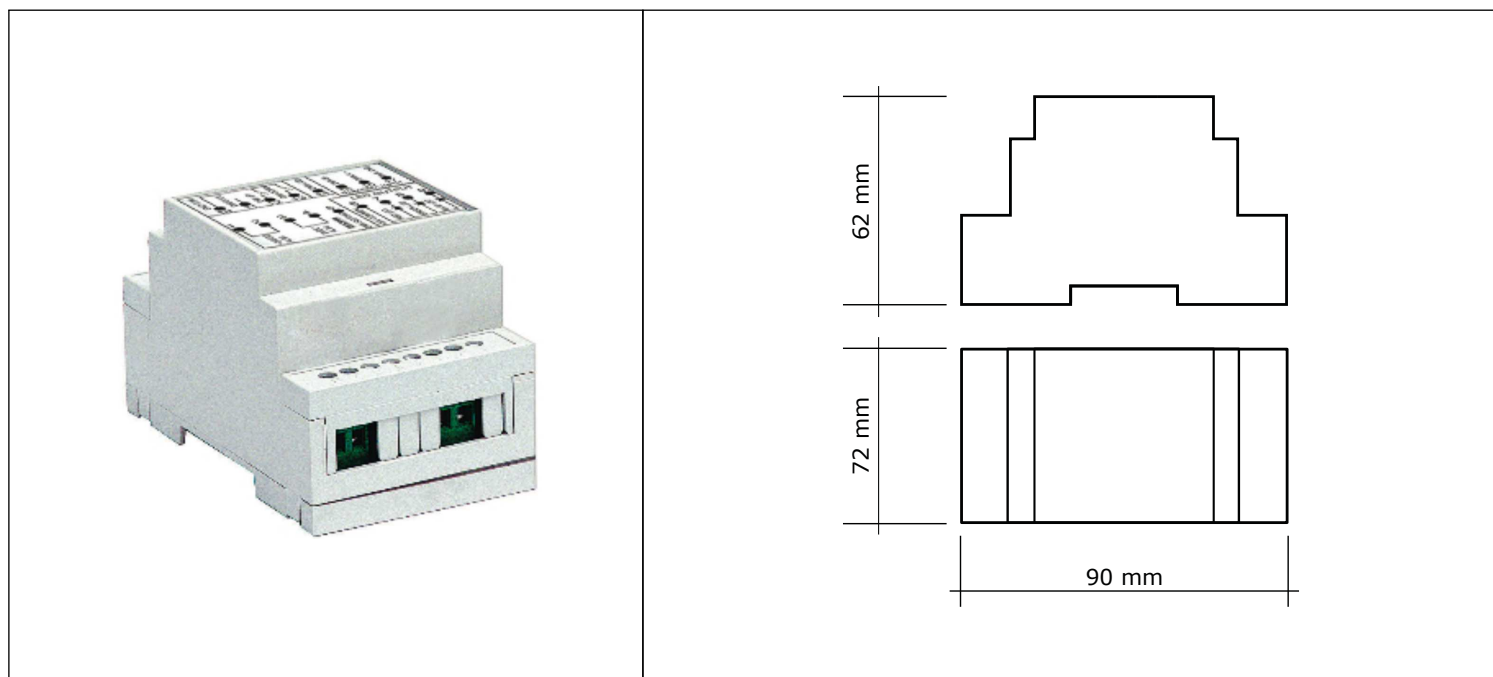
PRODUCT DESCRIPTION:

Dimmer for linear system, spot and downlights family.
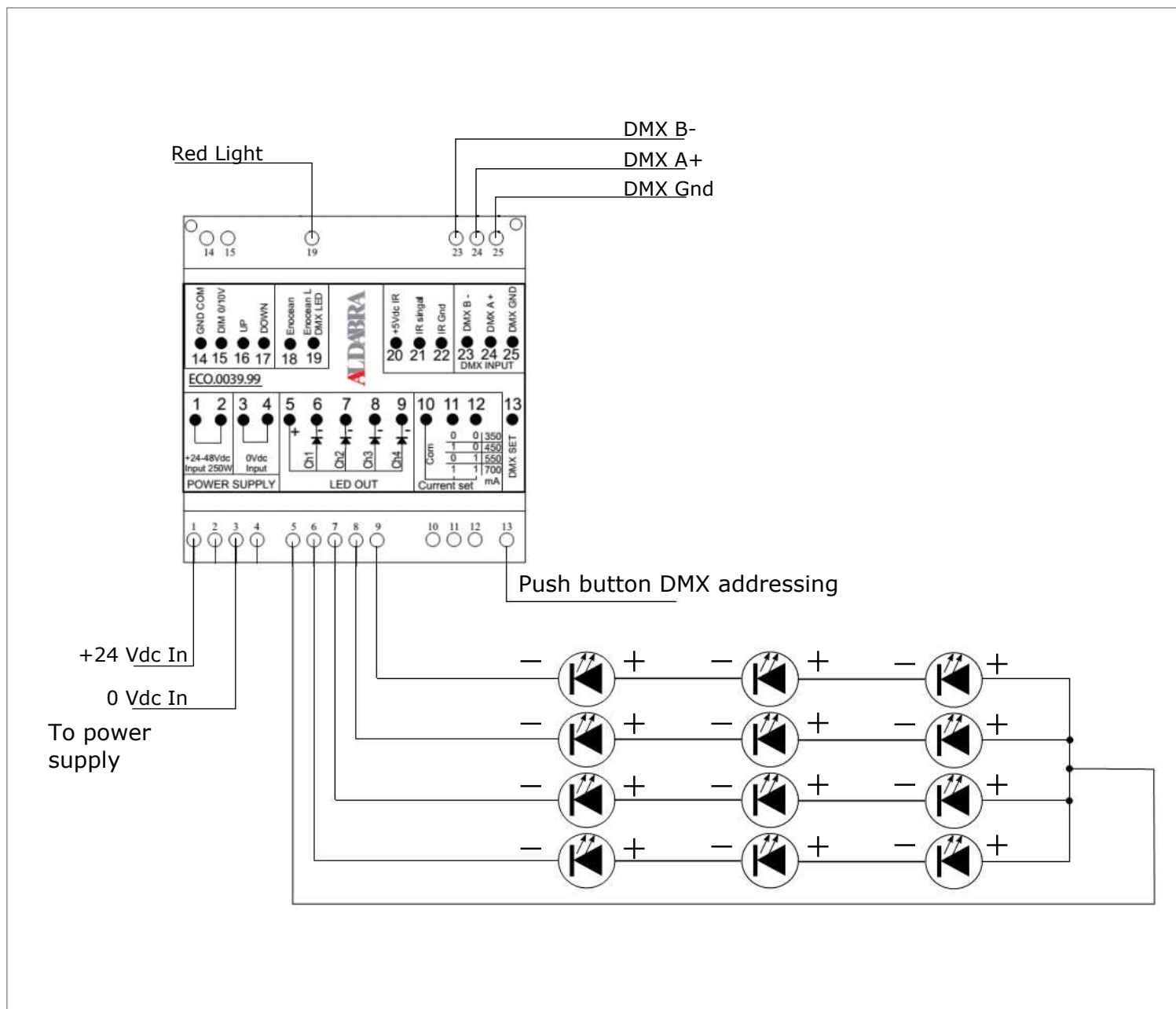This device is suitable for constant current 500mA supply fixtures.

TECHNICALS FEATURES:

power supply	24 Vdc
max output current	4 channels 500 mA each channel
max ouput power	42 W (max 7 LED each channel)
control input	DMX standard USITT512 (RDM 2.0 compatible) self learning, addressing mode
dimming range	0%-100%
working temperature	-10 ÷ 54 °C
max case temperature	65 °C
expected lifetime (at Tc<=75°C)	>100000h
protection class	IP20
max connecting wire cross section	1,5 mm²
installation	DIN bar mounting
dimensions (LxWxH)	90x72x62 mm
weight	120g

IP20 III CE

10822.180907

ECG.0008.0
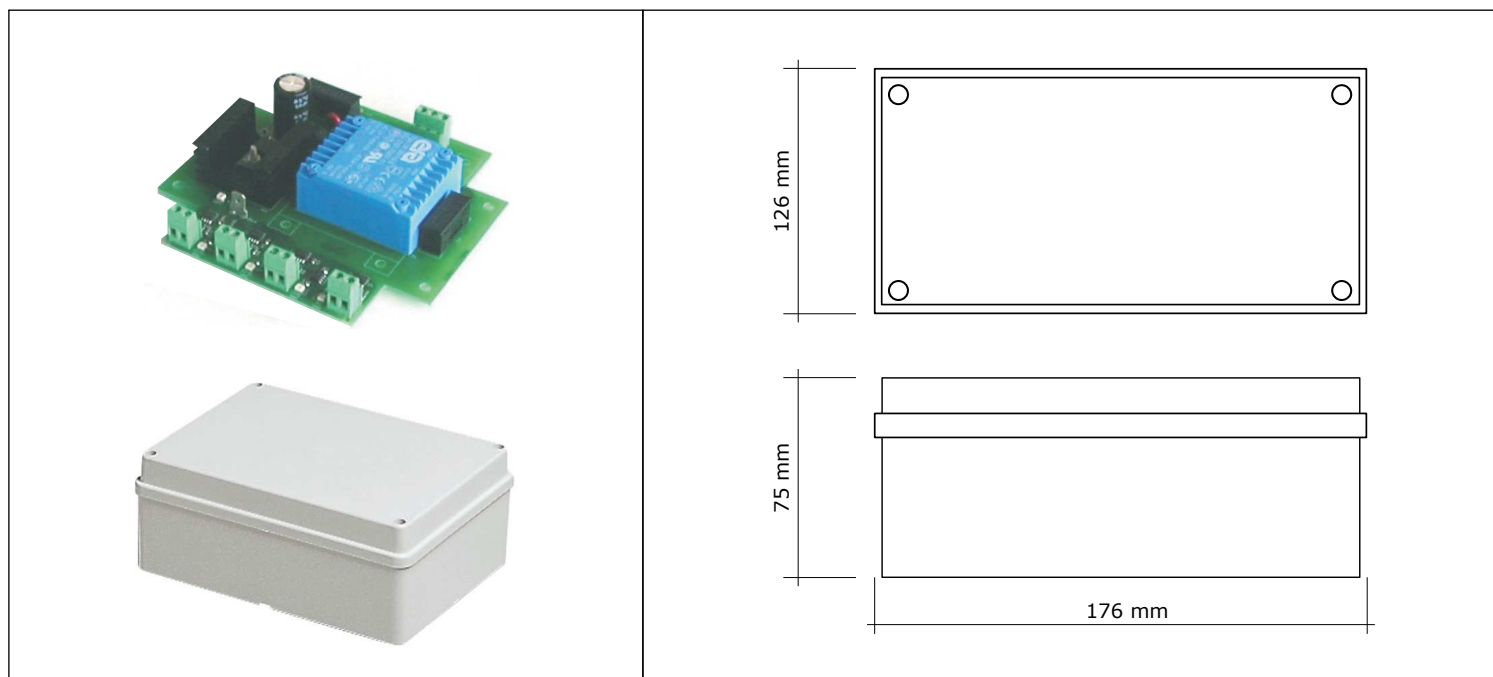## DATA-SHEET

OPERATING MODE:

To set DMX address connect the DMX generator to wire A and B, red light in position 19 will blink correctly if DMX is connected.

Set DMX generator to the max value on the desired channel,(for example channel 6=255) then push and hold DMX set button on the box in connector position 13.

The red LED on board stay on 3 second then blink to indicate the setting is complete.

Be careful that the A and B wires are properly connected.

10822.180907

ALDABRA
PROFESSIONAL EXTERIOR LIGHTING

ALDABRA
PROFESSIONAL INTERIOR LIGHTING

ECG.0010.0
DATA-SHEET

126 mm

75 mm

176 mm

PRODUCT DESCRIPTION:

DMX bus signal repeater.
This device has one input and three outputs.
In this way 3 times 32 DMX interfaces can be used without decreasing the DMX signal.
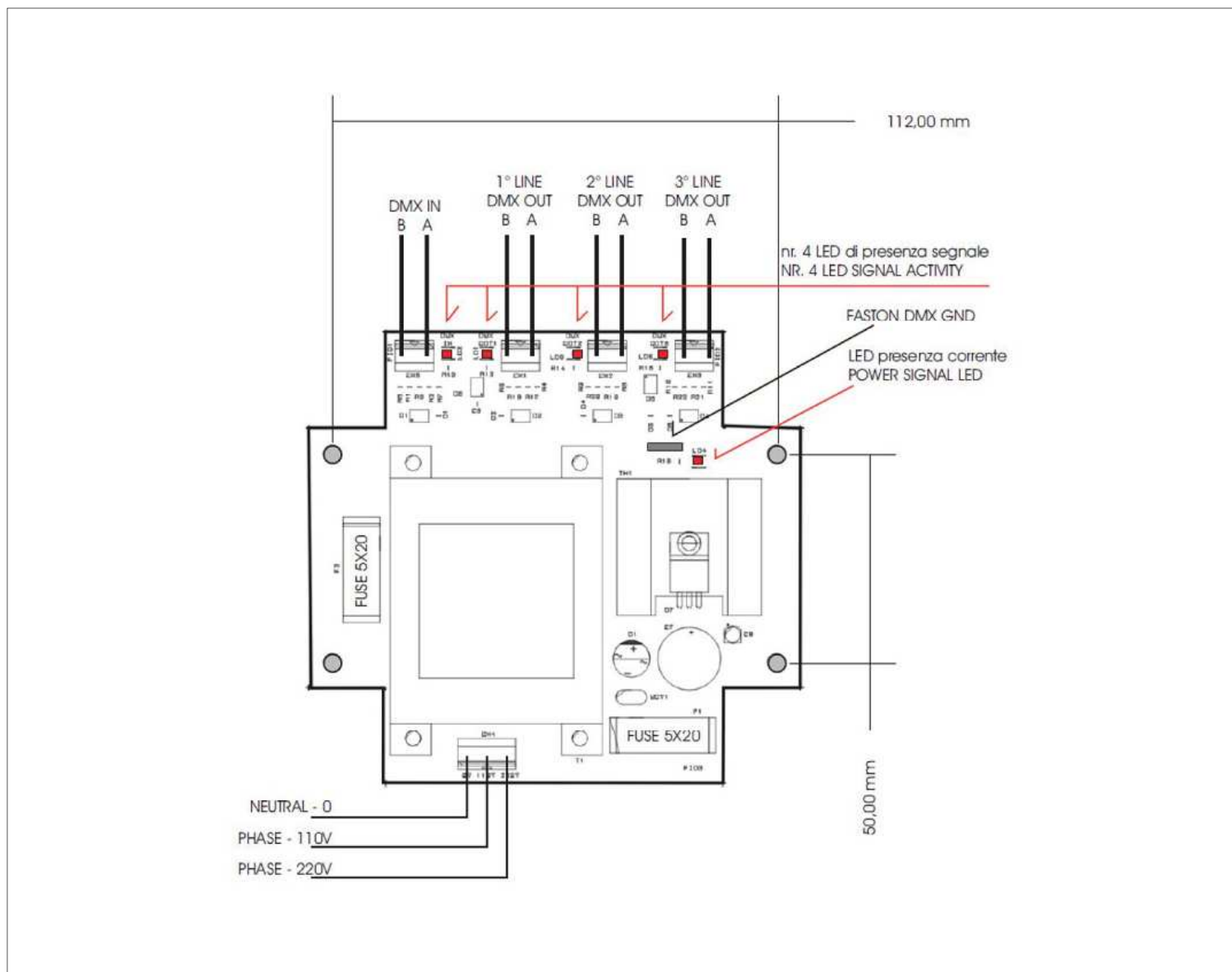The repeater also needs to be used when the DMX bus is exceeding 250 m.
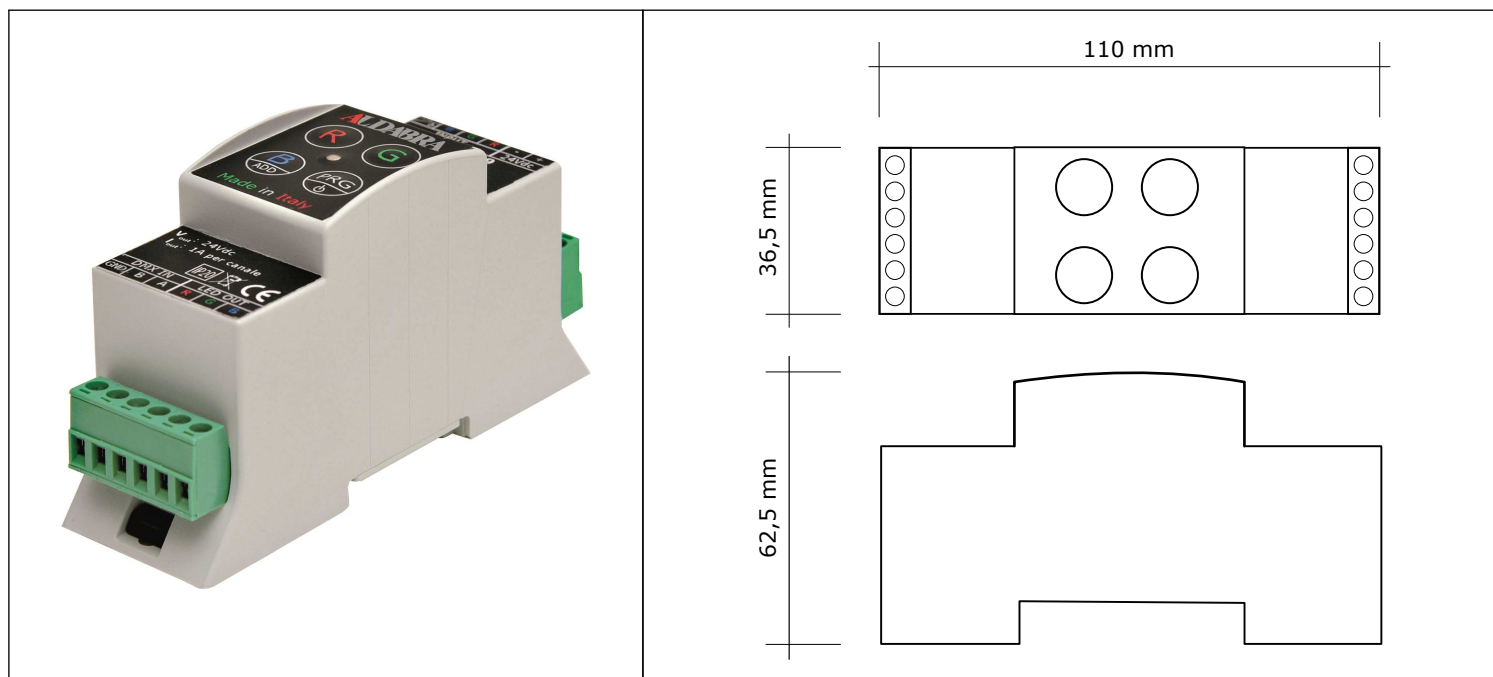
TECHNICALS FEATURES:

supply voltage	110/220 Vac 50/60 Hz
number input	1 x DMX 512
number ouput	3 x DMX 512
DMX LED signal	n° 4
Power supply LED signal	n° 1
Faston for DMX ground	n° 1
ambient temperature	-25 ÷ 50 °C
max case temperature	75 °C
expected lifetime (at Tc<=75°C)	>100000h
protection class	IP20
max connecting wire cross section	1,5 mm²
dimensions (LxWxH)	176x126x75 mm
weight	50g + 150g (box IP67)

IP20 CE

ECG.0010.0
DATA-SHEET

112,00 mm

DMX IN
B A

1° LINE
DMX OUT
B A

2° LINE
DMX OUT
B A

3° LINE
DMX OUT
B A

nr. 4 LED di presenza segnale
NR. 4 LED SIGNAL ACTIVITY

FASTON DMX GND

LED presenza corrente
POWER SIGNAL LED

FUSE 5X20

FUSE 5X20

50,00 mm

NEUTRAL - 0

PHASE - 110V

PHASE - 220V

10838.180904

ECG.0011.0
DATA-SHEET

110 mm

36,5 mm

62,5 mm

PRODUCT DESCRIPTION:

Dimmer for linear system, spot and downlights family RGB system.
This device is suitable for 24 Vdc power supply fixtures.

TECHNICALS FEATURES:

supply voltage	24 Vdc
max output current	1 A x 3 channels (max 3 A)
max ouput power	72 W
control input	DMX
dimming range	2%-100%
ambient temperature	-20 ÷ 40 °C
expected lifetime (at Tc<=75°C)	>100000h
protection class	IP20
max connecting wire cross section	1,5 mm²
dimensions (LxWxH)	110x36,5x62,5 mm
weight	100g

IP20   III   CE

ALDABRA
PROFESSIONAL EXTERIOR LIGHTING

ALDABRA
PROFESSIONAL INTERIOR LIGHTING

ECG.0011.0
DATA-SHEET
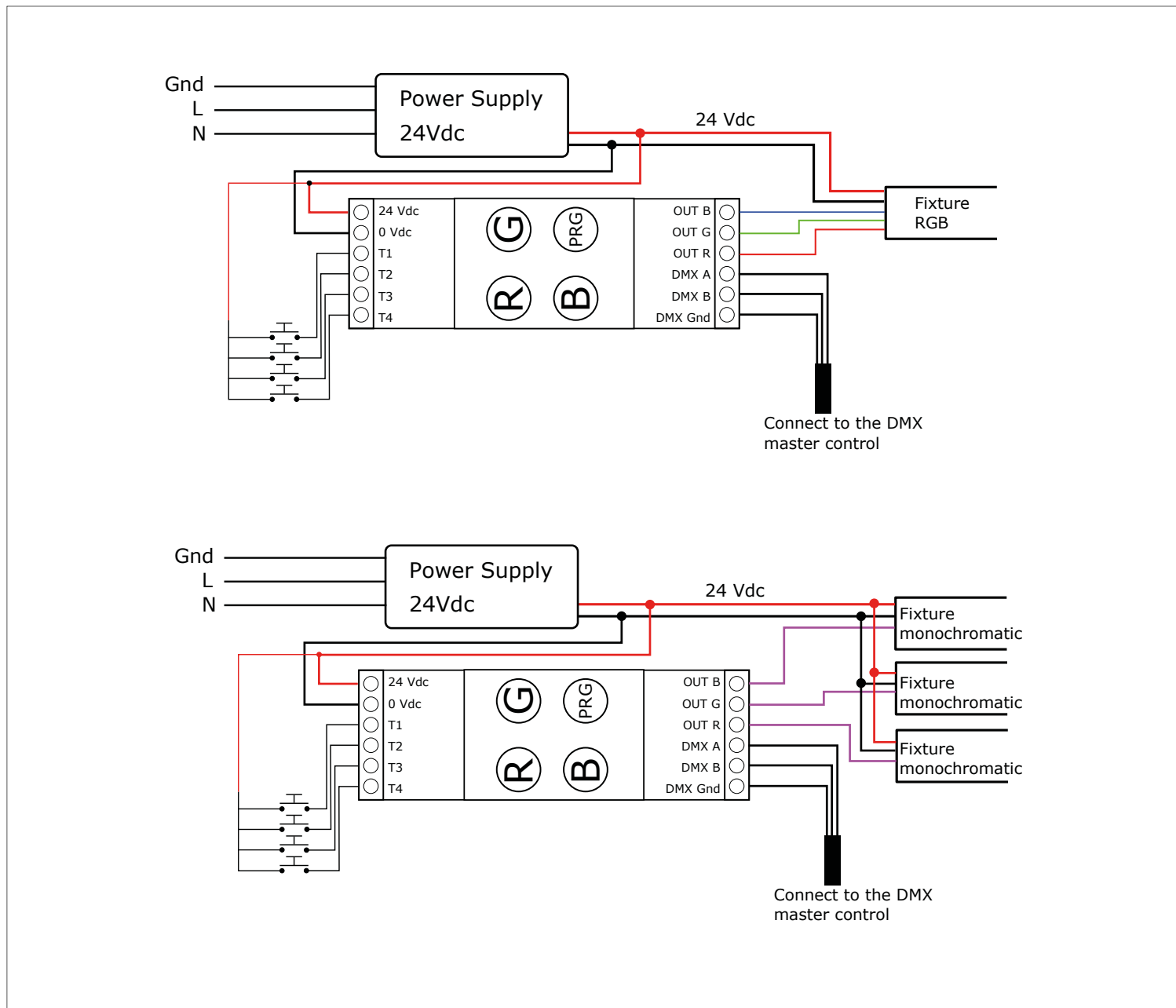
OPERATING MODE:

This device is suitable for colour mixing of RGB power and signal LED.
Already programmed with some colour change sequences, can be controlled remotely.
The on board keys or the remote connections can be operated as needed.
The push buttons are not supplied.

The four keys perform:

R, G, B press: switch ON and OFF the relative colour LED
R, G, B press and hold: fade light output of the selected colour from max to min or from min to max
PRG press: switch to the 3 integrated colour change sequences
PRG press and hold: switch ON and OFF the system and store setup
B press and hold: if the DMX signal is receive, it takes precedence on the keys that become mute. Hold this key for 3 sec. to setup DMX address.

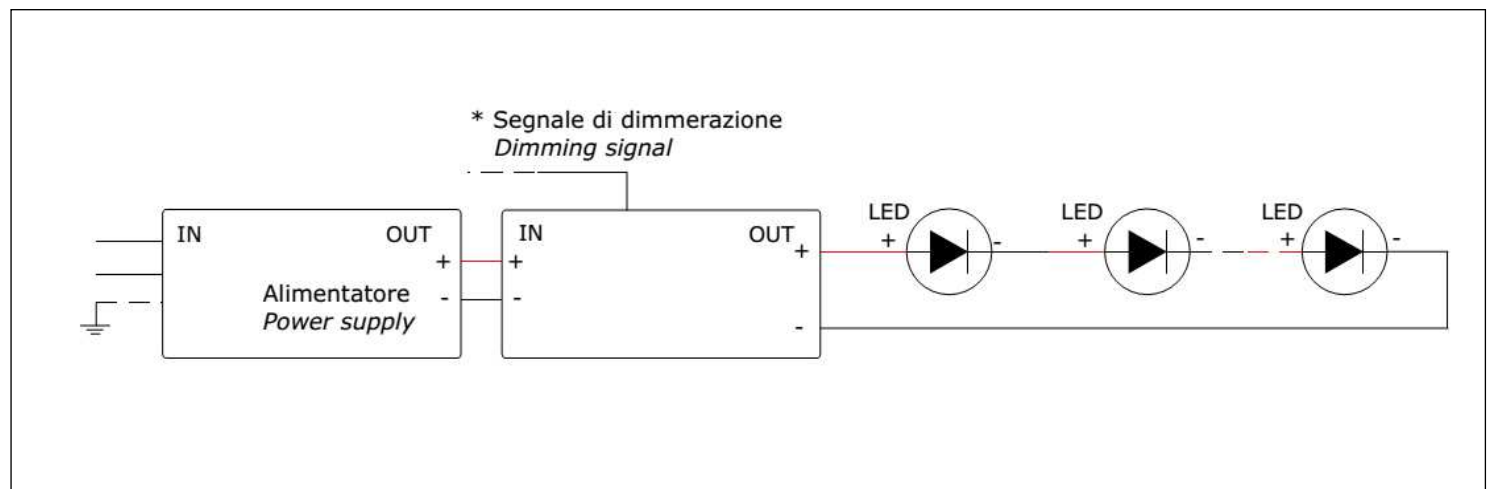Specifications are subject to change without notice.
www.aldabra.it
p. 2/2

10617.180903

ECG.0012.0
DATA-SHEET
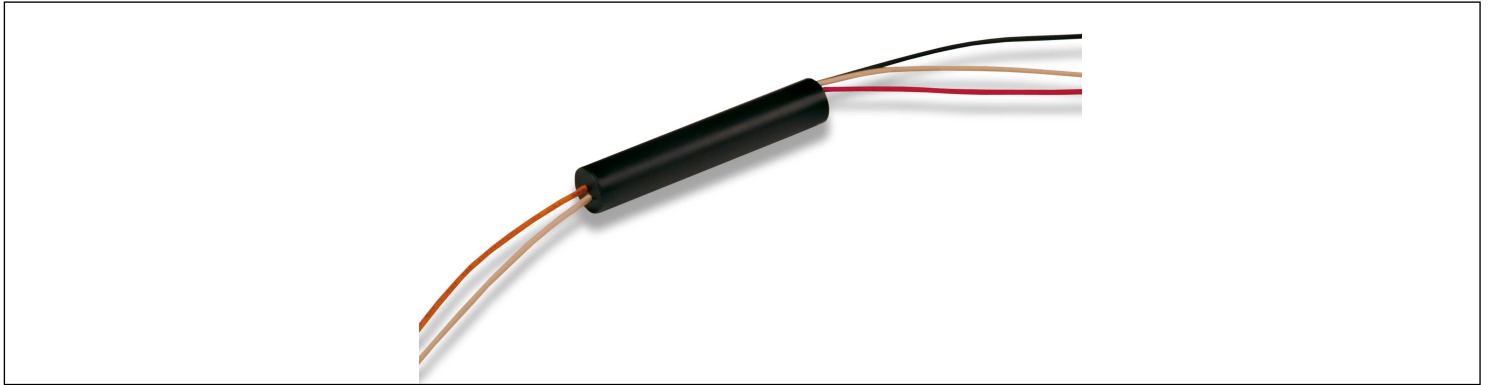
CURRENT CONTROLLER 350mA

Rated Voltage	24 Vdc
I out	350 mA constant current
N° min - max LED	Min 1 - Max 5 Power LED dimmable ; Max 1 High Power LED dimmable
ta °C	-30 ÷ 50
Protection degree	IP65
weight	10 g
Dimensions	Ø 12 mm x 65 mm
Homologation	CE - SELV

IN — dimming — 24 Vdc − + — LED - — LED + — OUT

WIRING DIAGRAM

* Segnale di dimmerazione
Dimming signal

IN   OUT
+
Alimentatore
Power supply -

IN   OUT
+   +

-

LED
+ -   LED
+ -   LED
+ -

10432.171128

ECG.0014.0
DATA-SHEET

CURRENT CONTROLLER 500mA

Rated Voltage	24 Vdc
I out	500 mA constant current
N° min - max LED	Min 1 - Max 5 Power LED dimmable ; Max 1 High Power LED dimmable
ta °C	-30 ÷ 50
Protection degree	IP65
weight	10 g
Dimensions	Ø 12 mm x 65 mm
Homologation	CE - SELV

WIRING DIAGRAM

ALDABRA

PROFESSIONAL EXTERIOR LIGHTING

ALDABRA

PROFESSIONAL INTERIOR LIGHTING

ECG.0016.0
DATA-SHEET

112

19

22

122

132

Ø 28mm
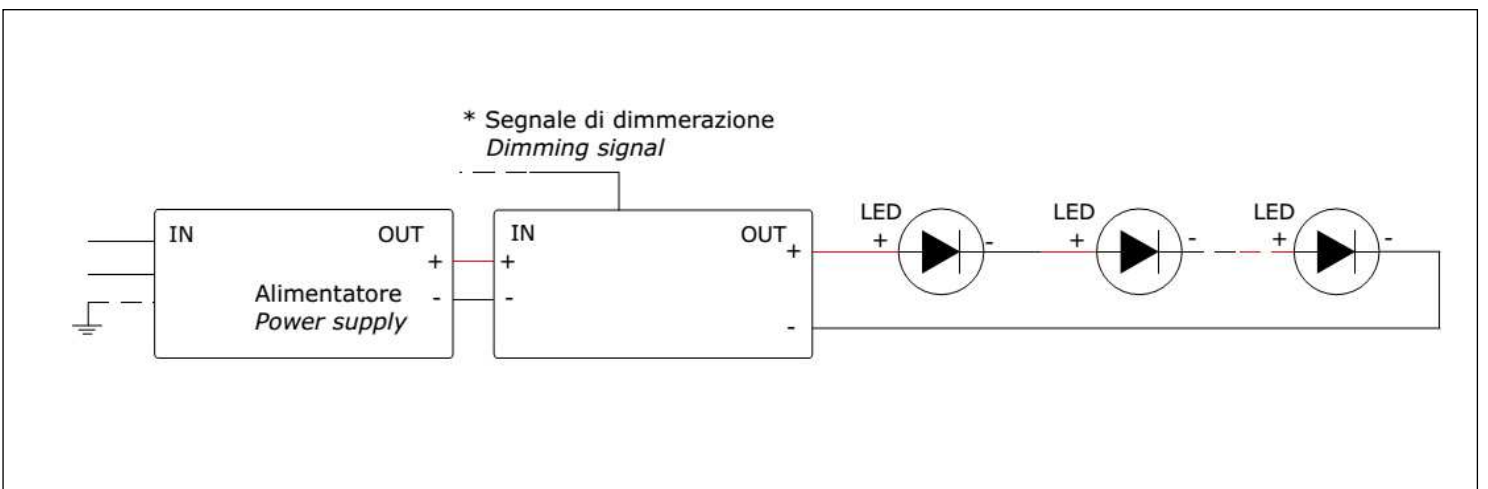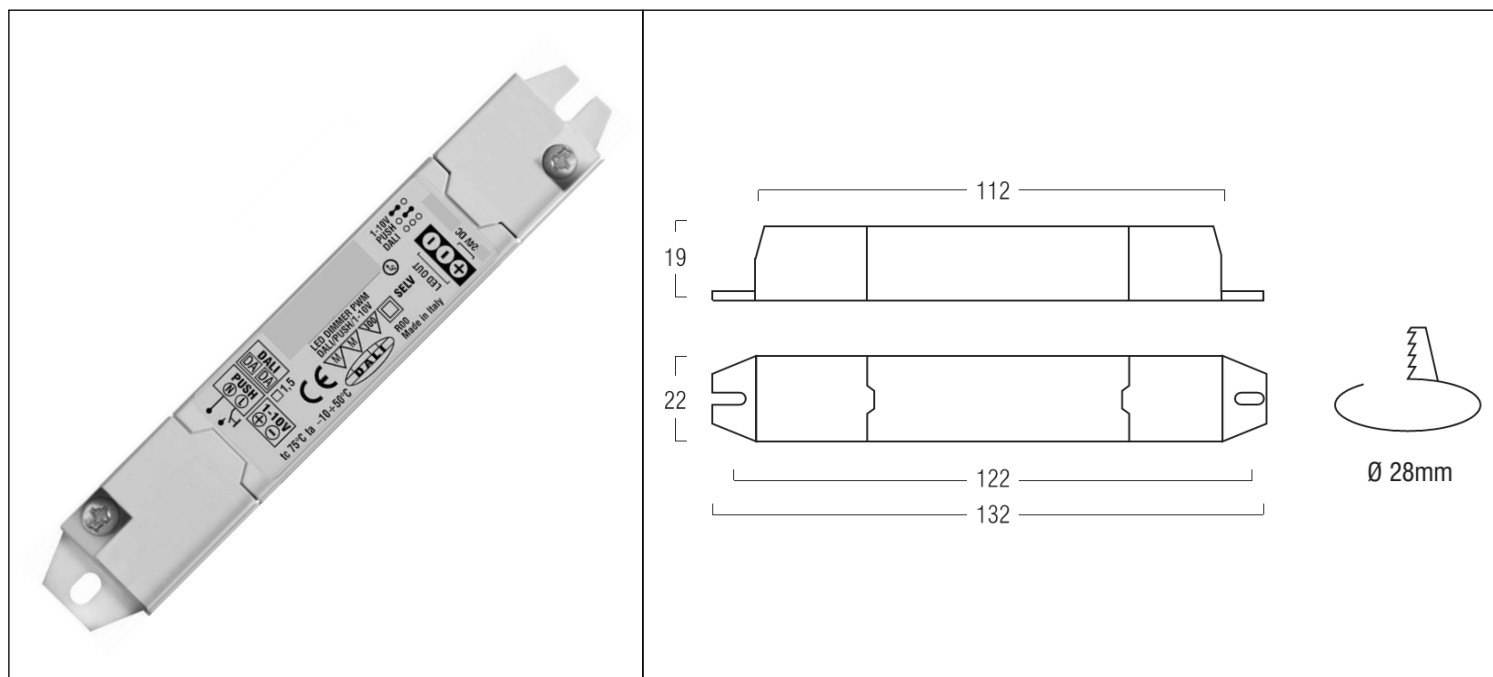
PRODUCT DESCRIPTION:

1 channel DALI LED-Dimmer, suitable for constant voltage LED modules.
Low standby power consumption, high efficency.

TECHNICALS FEATURES:

supply voltage	24 Vdc
max output current	2 A
max ouput power	48 W
control input	DALI
operating mode	DT6 (individual channel control via 1 DALI address)
current consumption DALI	2 mA
dimming range	2%-100%
ambient temperature	-25 ÷ 50 °C
max case temperature	75 °C
expected lifetime (at Tc<=75°C)	>100000h
protection class	IP20
max connecting wire cross section	1,5 mm²
cable diameter	4 ÷ 6 mm
dimensions (LxWxH)	132x22x19 mm
weight	50g

M M 100 SELV C E DALI

10477.180824

ALDABRA
PROFESSIONAL EXTERIOR LIGHTING

ECG.0016.0
DATA-SHEET

ALDABRA
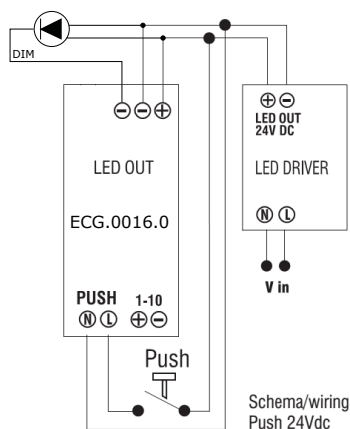PROFESSIONAL INTERIOR LIGHTING

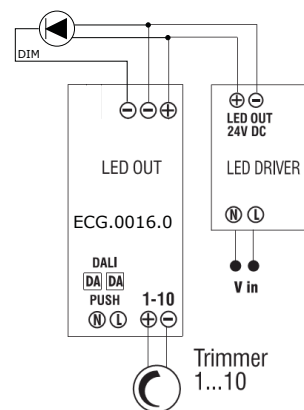## Wiring with three cables :

Schema di collegamento DALI
Wiring diagram DALI
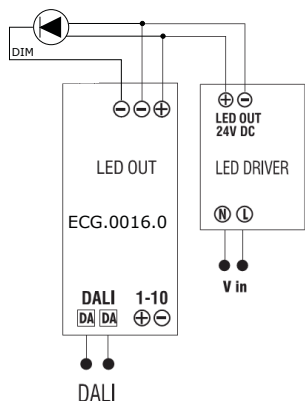
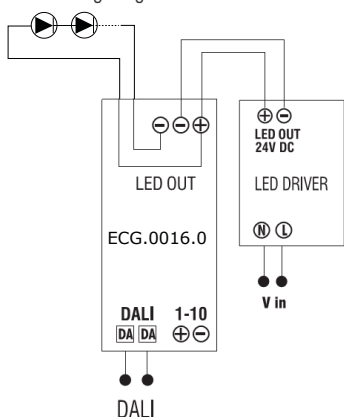Schema di collegamento Push
Wiring diagram Push

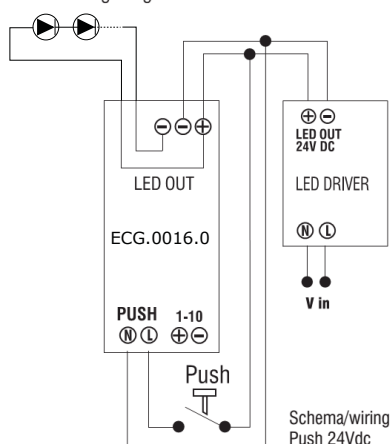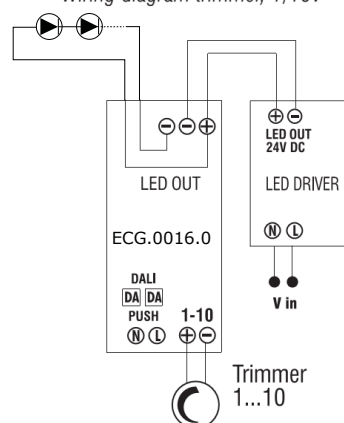Schema di collegamento trimmer, 1/10V
Wiring diagram trimmer, 1/10V

Wiring with two cables :

Schema di collegamento DALI
Wiring diagram DALI

Schema di collegamento Push
Wiring diagram Push

Schema di collegamento trimmer, 1/10V
Wiring diagram trimmer, 1/10V

OPERATING MODE:

The device has three distinct modes of operation selected via jumper (are alternative to each other):
1) DALI dimming 2) Push dimming 3) 1-10V dimming.
Restart after a power failure, resumption of the last set point.
Low level in Push is different from 0 to distinguish it from OFF.
-**DALI**: the device can be controlled by its own address (device type 6)

-**Push-dimming**: Short press the push button for ON/Off.
  Long press the push button to increase light intensity (2-100%).
  Regulation automatically stops at minimum and maximum values.
  Memory of the last data dimming. At each ON the driver start from the last data set.
  Method of resynchronisation (sometimes the system could be out of sync, i.e. some lamps will be on, thers off, etc.).
  In Off/On position press the push key for a long time (30 sec.), the driver will be 100% and the system will now be resynchronised.
 Total lenght of push cables: 15m

- **1-10V**: You can use commercial dimmer 1-10V.
  The LED brightness varies proportionally to the signal sent to the terminal from 2 to 100%.
  You can use 100K potentiometers. The variation in the brightness of the LED is in proportional or logarithmic depending on the model used potentiometer (recommended logarithmic).

DALI & Push-dimming restart after a power failure at the last data set.

Jumper position

1-10V | Push Dimming | DALI

10477.180824

www.aldabra.it
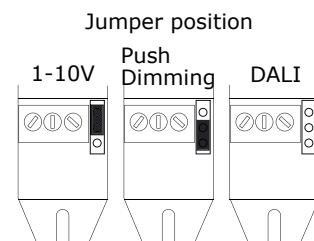
ECG.0028.0
DATA-SHEET
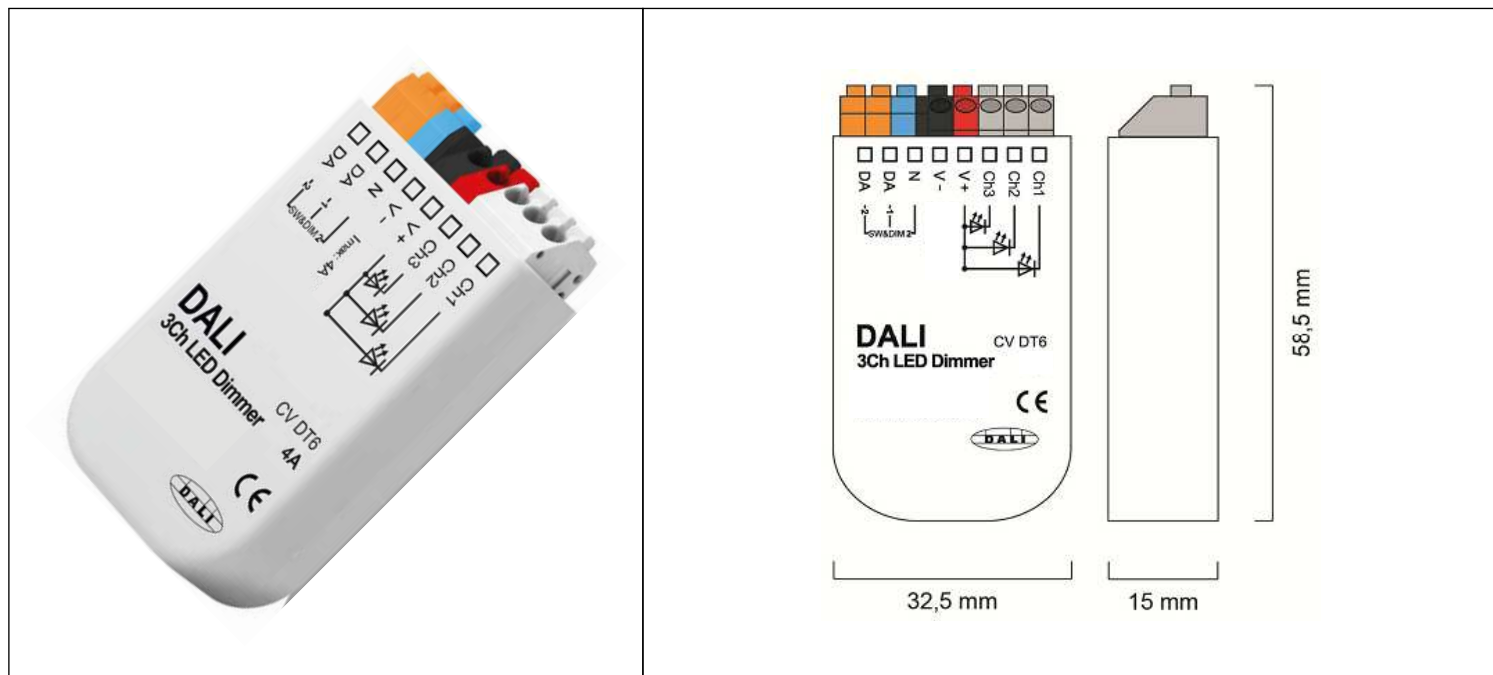
PRODUCT DESCRIPTION:

3 channel DALI LED-Dimmer, suitable for constant voltage LED modules.
Low standby power consumption, high efficency.

TECHNICALS FEATURES:

supply voltage	24 Vdc
max output current	1 A x 3 channels (max 3A)
max output power	72 W
control input	DALI
operating mode	DT6 (individual channel control via 3 DALI addresses)
current consumption DALI	2 mA
dimming range	0,1%-100%
ambient temperature	-20 ÷ 60 °C
expected lifetime (at Tc<=75°C)	>100000h
protection class	IP20
max connecting wire cross section	1,5 mm²
dimensions (LxWxH)	59x33x15 mm
weight	16g

DALI CE

ECG.0028.0
DATA-SHEET
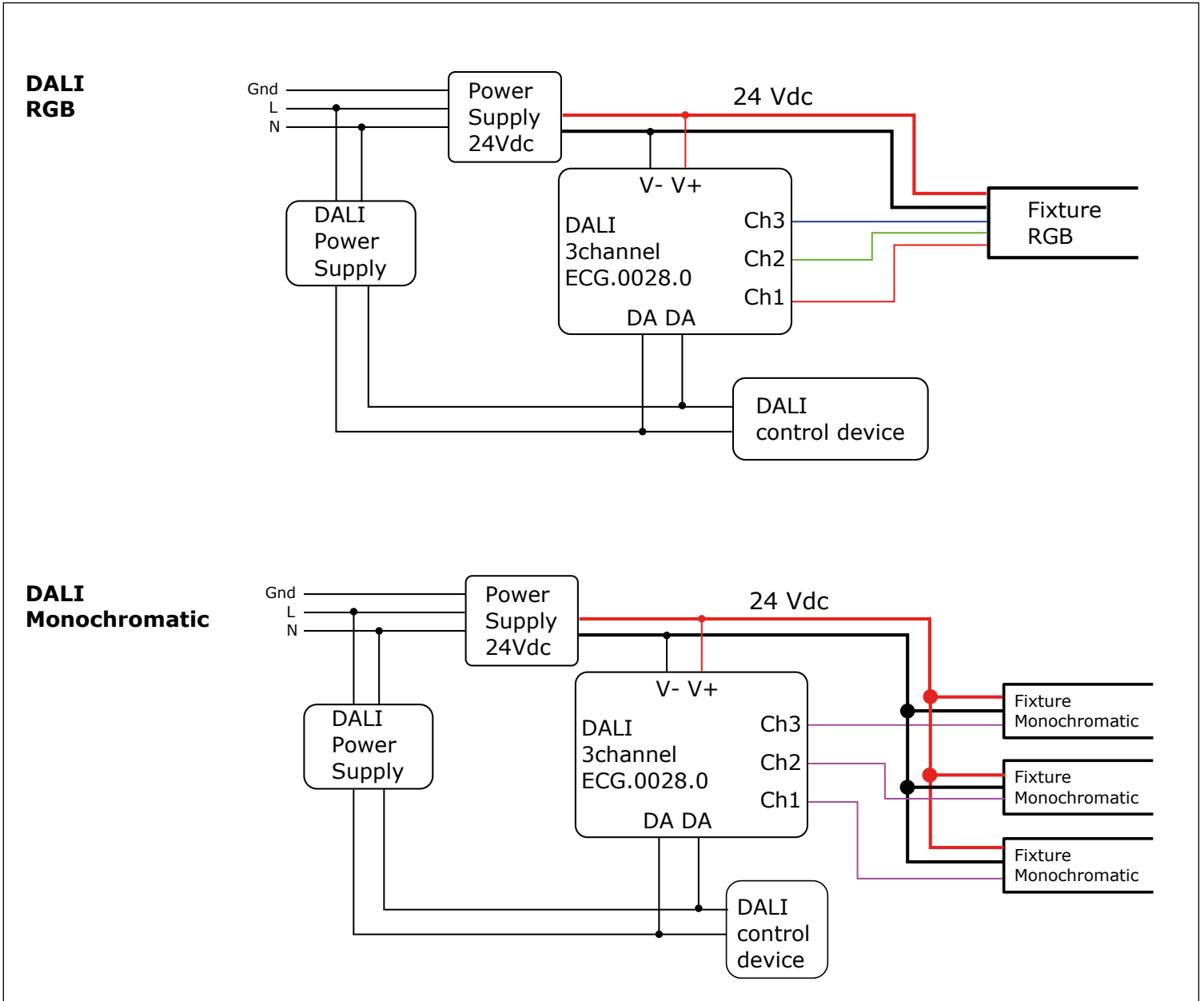
OPERATING MODE:

DT6 (factory default)

In this operating mode each channel can be controlled by its own DALI address (Device type 6).

DALI Level (Colour)

10616.180824