

Digital Dimmer Unit Instruction Manual

Models:

DDPx1210, DDPx1213, DDPx1216
DDPx6025, DDPx6032,
DDPx3025
version 4.0 since 6 July 2018

ATTENTION!

This instruction manual contains important information about the installation and the use of the equipment. Please read and follow these instructions carefully.

Always ensure that the power to the equipment is disconnected before opening the equipment or commencing any maintenance work.

DDP12XX_en_manual_M018.doc

General information

IMPORTANT INSTRUCTIONS!

All safety and operating instructions should be read before the equipment is installed or operated.

IMPORTANT SAFETY INFORMATION

The following general safety precautions have to be observed during all phases of operation, service, and the repair of this equipment. Failure to comply with these precautions or with specific warnings in this manual violates safety standards of design, manufacture, and the intended use of this equipment.

Do not operate in an explosive atmosphere!

Do not operate this equipment in the presence of flammable gases or fumes. Operation of any electrical instrument in such an environment constitutes a definite safety hazard.

Water, moisture, heat and humidity

Do not operate this equipment near water or in areas with wet floors, or in high humidity atmosphere, where condensation forms on the equipment. It should never be placed near or over a heat register or other source of heated air. It should not be installed or operated without proper ventilation.

Power connections

This equipment must be earthed.

Let the equipment adapt the environment for at least 10 minutes after unpacking. Please double check the signals of the power cable. Cable must be 5-wire [3L+N+E] with the CEE form input socket 32A/63A - 5-pin or hardwired to the installation rack.

Output connection

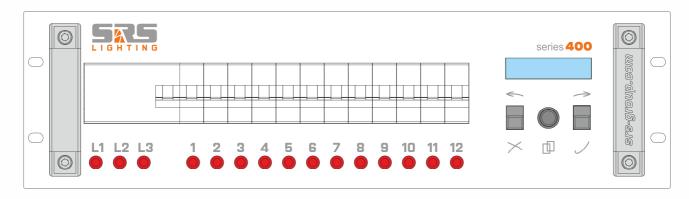
The output terminals are located inside the dimmer. Live, neutral and earth connections must be made to all load equipment. Have a look at the PCB for more information about connection of outputs and the power input.

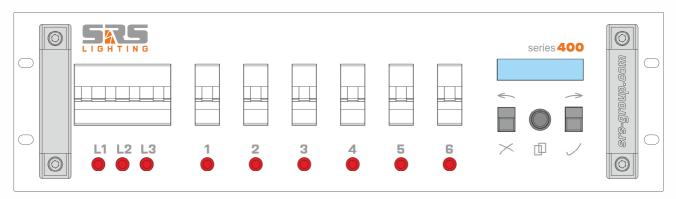
DMX Input connection

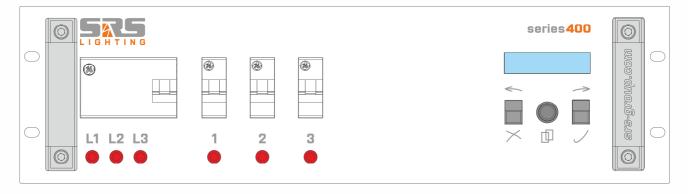
DMX512 standard 3-pin and 5-pin XLR connectors are located on the rear panel of DDP12xx. DMX input is optically isolated. Analogue input (standard 0-10V) is made via the HD-SUB 15-pin connector.

Functions and Control

Front panel:







- 1. GFI63 or 80A, 30mA / *main switch B models
- 2. Indicator of main input
- 3. Circuit breakers 1P for DDP model and 1P+N for DDPN model
- 4. Output load indication /off when the lamp connection and channel level are set to zero/
- 5. ESC button
- 6. ENCODER
- 7. ENTER button

Rear panel:



- •DMX input/output
- •Analog/Scene input SUB HD15
- •Power cable 5G6mm2 or 5G10mm2
- •GND grounding point

Navigation menu

The initial menu indicates the DMX start address, DMX status, inside dimmer temperature and main voltage.

DMX status:

NC DMX is not connected

ER swap 2 and 3 on the DMX cable

OK DMX is OK

DMX:216-NC T:37C 228V 230V 231V DMX:216-OK T:37C 228V 230V 231V DMX:216-ER T:37C 228V 230V 231V

Temperature status:

Number shows the temperature of dimmer in °C

OL! Warning: The inside temperature of the dimmer is higher than 75°C. Outputs are switched off.



Rotate the ENCODER to see the output bargraph.



Menu navigation:

Press the ENCODER to enter the main menu.

Rotate the ENCODER and select one of the following items by pressing it:

- 1. START ADDRESS
- 2. PREHEAT
- 3. CURVE
- 4. AUTOMATIC TEST
- 5. LOCK CONTROLS
- 6. LIMIT OUTPUTS
- 7. SETUP /to enter the SETUP, press the ESC and ENTER buttons at the same time/
 - 1. DMX MODE
 - 2. ANALOGUE MODE
 - 3. MANUAL MODE
 - 4. MIX MODE
 - 5. PATCH
 - 6. SCENE
 - 7. LOST DMX
 - 8. FACTORY RESET

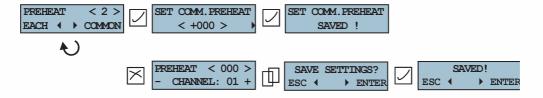
Set the DMX address



Press the ENTER button.

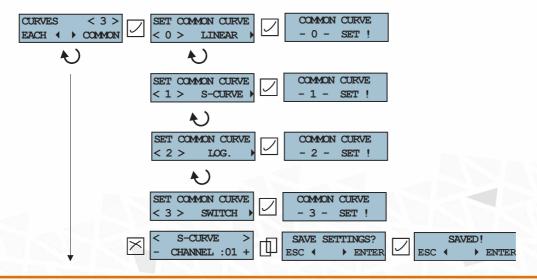
Rotate the ENCODER to set the DMX start address (001-512). Press the ENTER button to confirm.

Preheat



Press the left button to select preheats for every channel individually or the right button to set one common preheat for all channels. If necessary, use preheat 0-100% for a fast control of the dimmer output.

Dimmer curves



Press the left button to select the curves for each channel individually or the right button to set one common set of curves for all channels.

Automatic lamp test



Press the ENTER button to start the test.

Every channel will be tested by increasing/decreasing the output value per channel.

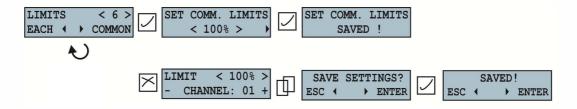
Lock Code



Enter the old code (factory setting is 0000). Press the ENCODER button.

Enter a new code and press the ENCODER button. The new code is now saved. To lock the menu, press both buttons at the same time. To unlock the menu, press the ENCODER and enter the code. The menu is now unlocked. If you need to restore the code, please ask for service manual.

Limits



Press the left button to select the limit for each channel individually or the right button to set one common limit for all channels. Limit 100% means that output will go to 100%. Limit 50% means that outputs will go to 50% maximum. You can set the limit from 0-100%.

Setup



Press the ESC and ENTER buttons at the same time to enter the SETUP MODE.

The dimmer has six modes of control:

- DMX mode /controlled by DMX/
- Analogue mode /controlled by 0-10V/
- Manual mode /controlled by menu of dimmer/
- Mix input mode /LTP or HTP rule/
- · Patch mode
- · Scene control

DMX mode



Rotate the ENCODER and set the DMX address (001-512).

Press the ENTER button to confirm.

The dimmer works only with the DMX input now.

Analogue mode 0-10V



Press the ENTER button.

The dimmer works only with 0-10V control now.

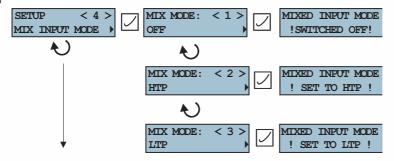
Manual mode



Press the ENTER button.

The dimmer works only with manual control now. You can set output channel for each

Mix mode



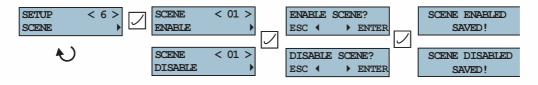
The dimmer is switched to the HTP or LTP mix mode now. In this mode, the dimmer is controlled via DMX and 0-10V input at same time.

Patch mode



Press the right button to select the dimmer channel. Press the left button to select the control mode (DMX, analogue or manual mode) for each channel. Use the ENCODER to assign control mode for each channel.

Scene mode



In menu scene, you can enable or disable the scene function. Press the ENTER button to confirm your selection.

Flash scene



The flash scene is a scene mode, where scenes are called by a single press of a button. When any other button on the HLC is pressed, the other scene is called. You can preset up to 8 scenes. A scene that is to be flashed must be added to the Flash scene list. Rotate the ENCODER until you get to the desired scene number and confirm by the ENTER button. To remove a scene from the Flash scene list, rotate the ENCODER to the scene number and press the ESC button. A single press of the ENCODER saves all settings.

Scene channel



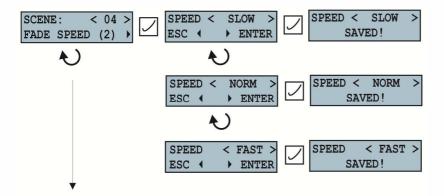
The channel for scene call from the DMX console (as if it was from analogue input) can be set here. The scene is called when the channel value is set to one of ten values. Scene numbers and their channel value ranges are illustrated in the table below. For example, to call scene 1, channel 13 can be used.

The scene is called if fader is set in one of these values for more than 2 seconds. Value other than 0 blocks the scene call via analogue input, while value 255 cancels all scenes.

Scene #	Channel value range	
1	10-19	
2	20-29	
3	30-39	
4	40-49	
5	50-59	
6	60-69	
7	70-79	
8	80-89	
9	90-99	
10	100-109	
11	110-119	
12	120-129	
13	130-139	
14	140-149	
15	150-159	

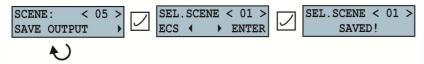
Note: If the MIX INPUT MODE (SETUP <4>) is turned off, the selected channel does not cancel the scene call.

Scene fade speed



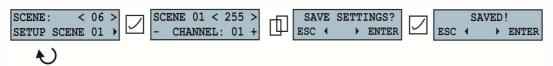
The fade speed can be set in three timeframes: SLOW, NORMAL or FAST. According to the setup, the scene will be changed to the selected speed when the scene is called.

Save output of dimmer to scene



The output of dimmer can be easily saved to any scene. This means that actual light output from dimmer can be saved to a scene and called later remotely. Select scene by rotating the ENCODER and save it by the ENTER button. This value will then be processed by a curve. If preheat on the channel is later changed, the scene will remain unchanged.

Set up the scene manually



Up to 15 scenes in the dimmer can be set up/recorded and their LATCH/FLASH function can be selected. Use ESC/ENTER button for scrolling over channels and the ENCODER for the selection of channel value and its confirmation. Then set up the output levels for each scene individually and confirm by pressing the ENTER button.

DMX lost setup



There are four options to set if the DMX signal from DMX port is disconnected:

- Outputs will hold the last DMX data frame.
- Outputs will fade to zero.
- Outputs will go to 100%.
- Outputs will be changed to a selected SCENE (0-15).

Factory reset

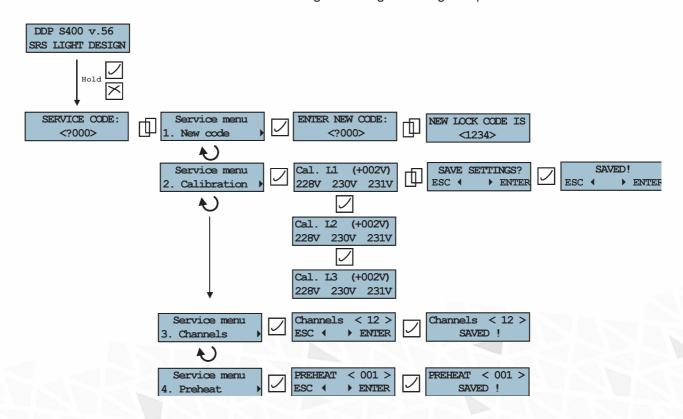


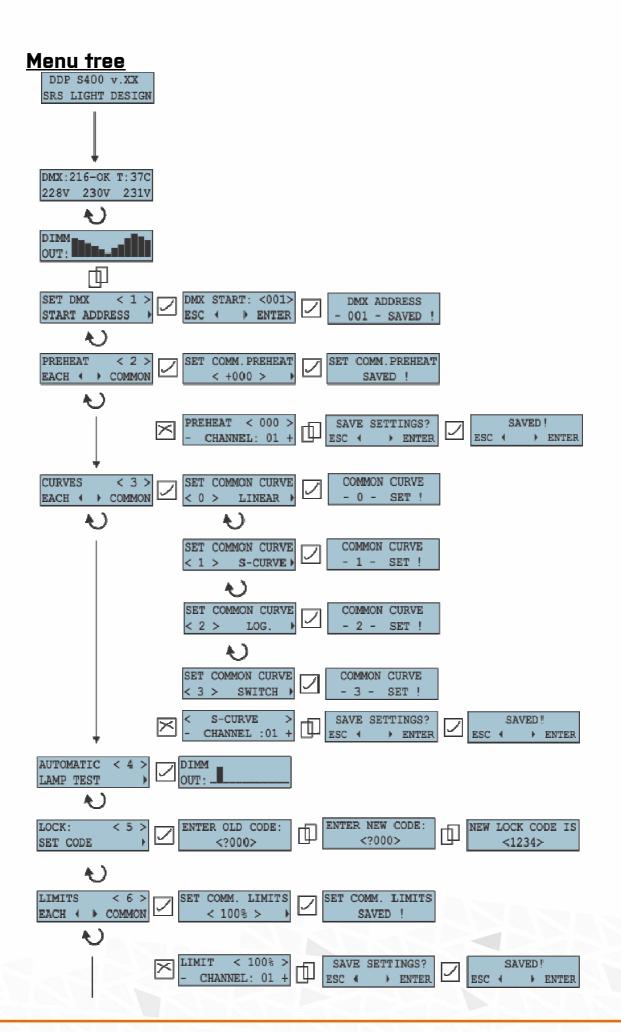
The following are the factory defaults:

- DMX mode
- DMX start address: 001
- Preheat: 000
- Curve 01: linear
- Mixed mode: OFF
- Limits: 100%
- Lock code: 0000
- Scene: disabled
- All scenes are erased
- Flash scene: 1-8
- Latch scene: 9-15
- Fade speed: NORM
- Lost DMX: hold active

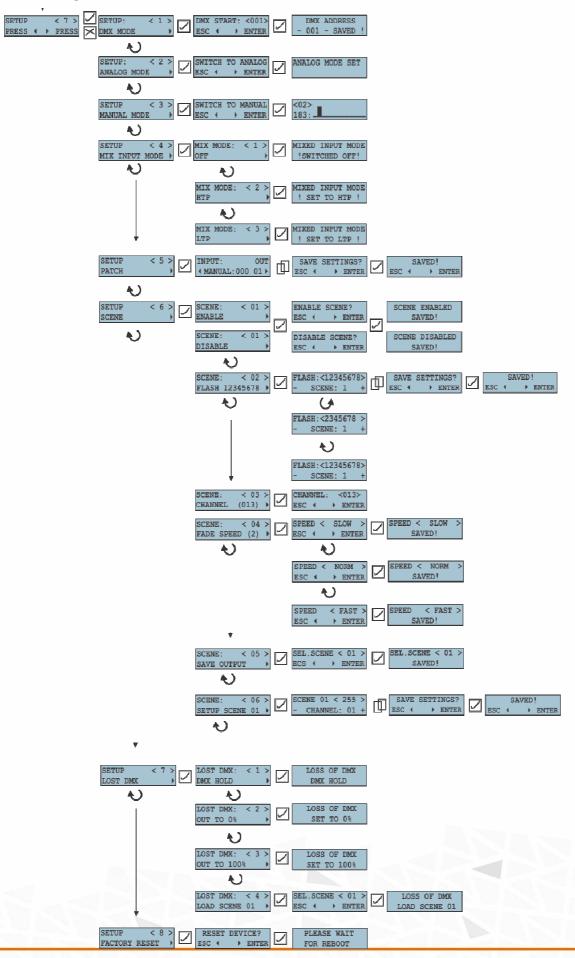
Service menu

Contact your distributor or manufacturer to get the code to enter the service menu. In this menu, you are able to change the type of dimmer. You can set up the new lock code if the old one has been lost or calibrate the voltage metering and the global preheat.





Setup menu tree



Technical data

Dimming capacity

DDPx1210	12x10A	12x2.3kW
DDPx1213	12x13A	12x3kW
DDPx1216	12x16A	12x3.7kW
DDPx6025	6x25A	6x5.7kw
DDPx6032	6x32A	6x7.3kW
DDPx3025	3x25A	3x5.7kw
DDPx3032	3x32A	3x7.3kW

Dimensions & Housing:

482.5 x 132 x 420 mm, Steel housing with gray powder coating

Weight:

DDPx12xx: 29 kg DDPx60xx: 28 kg DDPx30xx: 27 kg

Interference suppression:

Phase-angle control with triacs and in-line precision filters: 400us

Protection:

Short circuit protection by MCB Optional 1P+N, 1P+1P short circuit protection Double thermal protection

Ventilation:

100% duty cycle Temperature-controlled fan Automatic shutdown at critical temperatures

Others:

All safety features are displayed on the display
Soft start
Controlling of special functions via display, three keys and an encoder
Circuit breakers on the front panel
Easy change of power output connectors

Display Functions:

Voltage of all 3 phases Single channel values Inner temperature Load status check DMX signal status

Digital menu functions:

Preheat per channel
Dimmer curve per channel
Single channel patch
Variable channel set
DMX processing with fast output response
Hold function for output in case of the DMX data failure

Power Cable:

H07RNF cable 5 \times 4/6/10 mm²

Inputs and Outputs:

Pin out for the XLR connectors:

Pin 1: Data CMN (not connected to earth)

Pin 2: Data -Pin 3: Data +

Pin 4, 5: Not connected

The DMX Input and Output are wired in ratio 1:1.

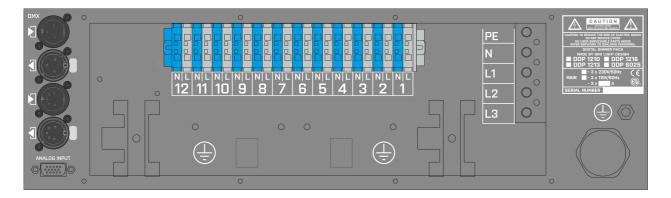
Pin out for the SUB-HD connector:

Pins 1-12: Channels 1-12, analogue input (0-10V)

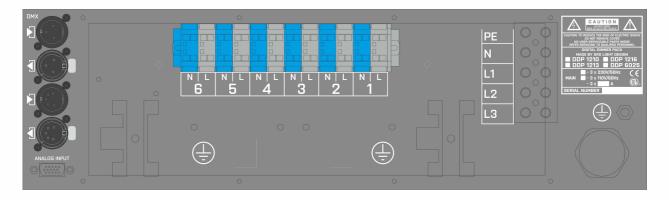
Pins 13-14: DC - pole

Pin 15: DC out +20V, 150mA

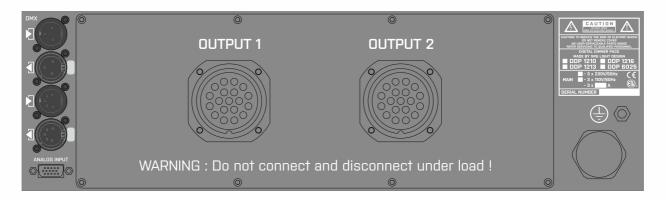
Pin out for the KO DDP12xx Terminal board for direct cable connection:



Pin out for the KO DDP60xx Terminal board for direct cable connection:



Pin out for the SOCAPEX connectors:



Output 1:

Pin 1,3,5,7,9,11 Phase 1,2,3,4,5,6

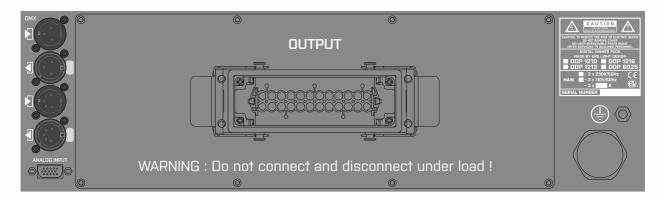
Pin 2,4,6,8,10,12 Neutral Pins 13-19 Earth

Output 2:

Pin 1,3,5,7,9,11 Phase 7,8,9,10,11,12

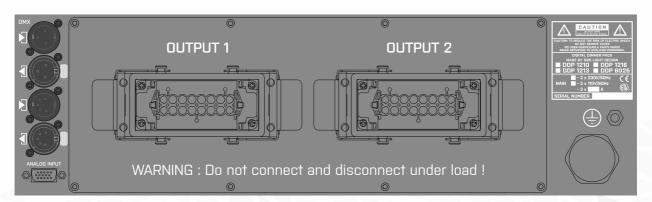
Pin 2,4,6,8,10,12 Neutral Pins 13-19 Earth

Pin out for the Harting/Ilme 24 connectors:



Pins 1-12 Phases 1-12 Pins 13-24 Neutral

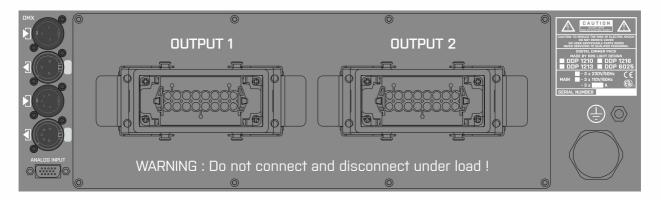
Pin out for the Harting/Ilme 16 connectors /Type A - phase + neutral/



Pins 1-6 Phases 1-6/7-12

Pins 9-14 Neutral

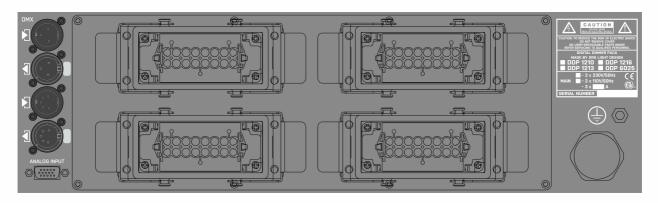
Pin out for the Harting/Ilme 16 connectors /Type B - phases + neutral inline/



Pin 1,3,5,7,9,11 Phases 1-6/7-12

Pin 2,4,6,8,10,12 Neutral

Pin out for the 4x Harting/Ilme 16 connectors /wiring on request/



Pin out for the Ilme 6 connectors:

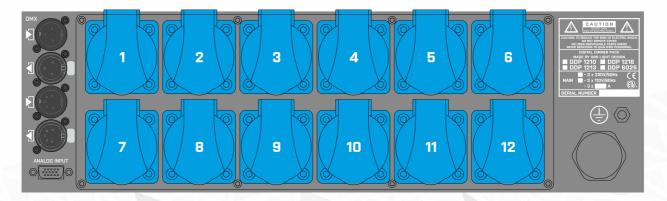
Output 1:

Pin 1,2,3 Phase 1,2,3 Pin 2,4,6 Neutral

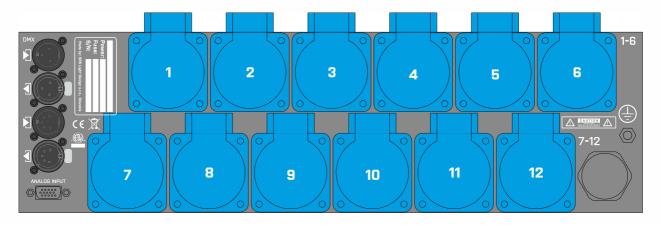
Output 2:

Pin 1,2,3 Phase 4,5,6 Pin 2,4,6 Neutral

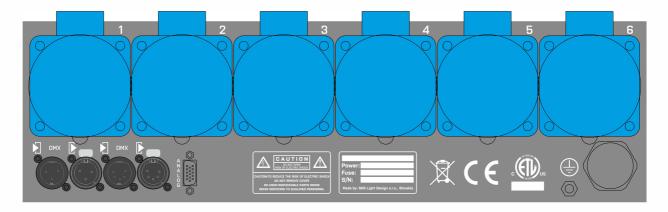
Pin out for the 12x Socket /French, Schuko, UK, Danish, .../



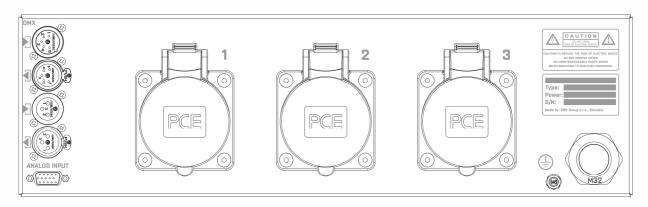
Pin out for the 12x CEE16/3p type 17 socket



Pin out for the 6x CEE32/3p socket



Pin out for the 3x CEE32/3p socket



((

Declaration of conformity

We hereby declare that the equipment described below conforms to its design, type and version introduced by us to the fundamental safety and health requirements of the EU Guidelines Machines.

Manufacturer:

SRS Group Rybničná 36/D 83106 Bratislava Slovakia

Declares that the product

Name of product: Digital dimmer pack series400

Type/version: DDP12xx, DDPN12xx

Correspond to the specification:

EN 60-950-1:2003 EN 55103-1:2000 EN 55103-2:2000 EN 60-598-2-17 1989 including amendments 1/2 EN 60-598-1 1992 including amendment 1

CE marking directive 93/68 EEC Low voltage directive (2006/95/EG) EMC directive (2004/108/EWG)

Bratislava, 29 April 2011

Robert Sloboda

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SRS Group s.r.o.

Rybnicna 36/D | 831 07 Bratislava | Slovakia Phone: +421 2 44 681 417 | Fax: +421 2 4468 1419 Email: sales@srs-group.com | www.srs-group.com

