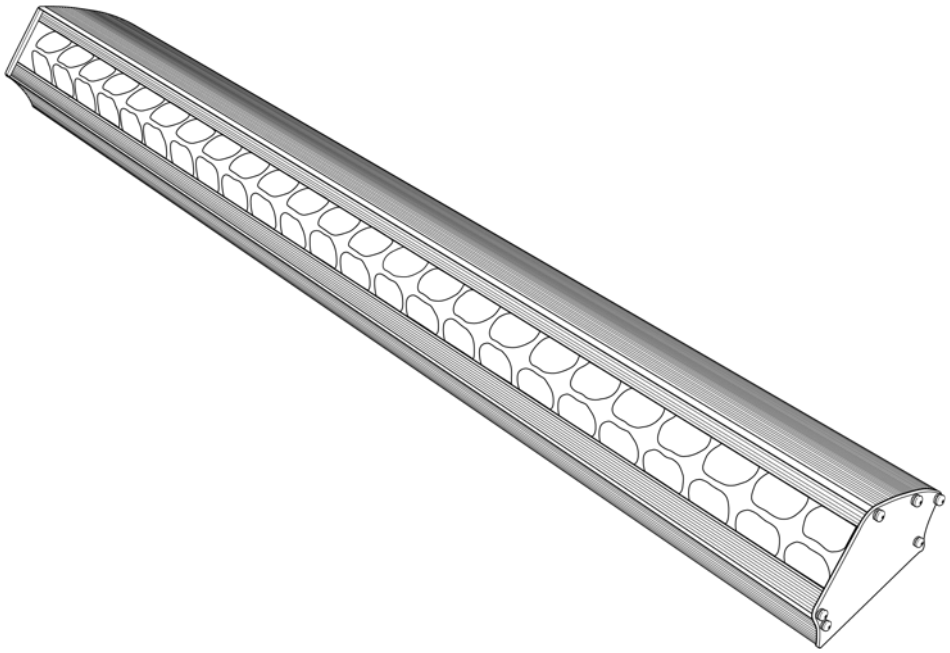
Manuel / Manual

DALIS – 864/864S

BAIN DE PIEDS
FOOTLIGHT



PROJECTEUR BAIN DE PIEDS LED – 4 COULEURS
LED – 4 COLOUR MIXING FOOTLIGHT

MODEL	LENGTH	POWER
864	100 CM	150 W
864S	50 CM	75 W

DALIS 864/864S
Firmware V1.XX

Validation : 02/08/19

DN41146200

ROBERT JULIAT

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1 User's instructions

GENERAL INSTRUCTIONS

1. Not for residential use.
2. **These fixtures must only be serviced by a qualified technician.**
3. In addition to the instructions indicated on this page, relevant health and safety requirements of the appropriate EU Directives must be adhered to at all times.
4. This fixture is in compliance with section 17 - Lighting appliance for theatre stages, television, cinema and photograph studios. Standards NF EN 60598-1 and NF EN 60598-2-17.
5. This fixture is rated as IP20, and is for indoor use only.

FIXTURE

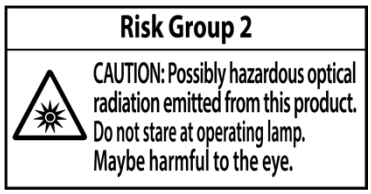
6. Ensure fixture is correctly mounted on an appropriate support.
7. Protection screens must be replaced in the event of any damage, such as cracks or deep scratches, since these might reduce performance.
8. When hung or flown the fixture must be secured by an additional hanging accessory (such as a safety cable or bond) of suitable length
9. Safety bonds or cables must be securely attached to the fixture and be as short as possible, or rolled up as necessary, to minimise travel distance should the fixture be dislodged. .
10. WARNING: LED source become hot during use. Allow fixture to cool before servicing.
11. Do not tamper with design of fixture nor any of its safety features.
12. Tighten electrical mains cable connections regularly and replace with one of identical specification if damaged.
13. Use only with correct power supply.
14. Do not orientate the fixture towards a source of light (sun, fixture), in particular for LED versions.

VENTILATION

15. Keep well away from flammable material.
16. Not for outdoor use. Do not cover. Do not permit fixture to get wet.
17. To avoid overheating, do not obstruct air vents – **do not cover the unit.**

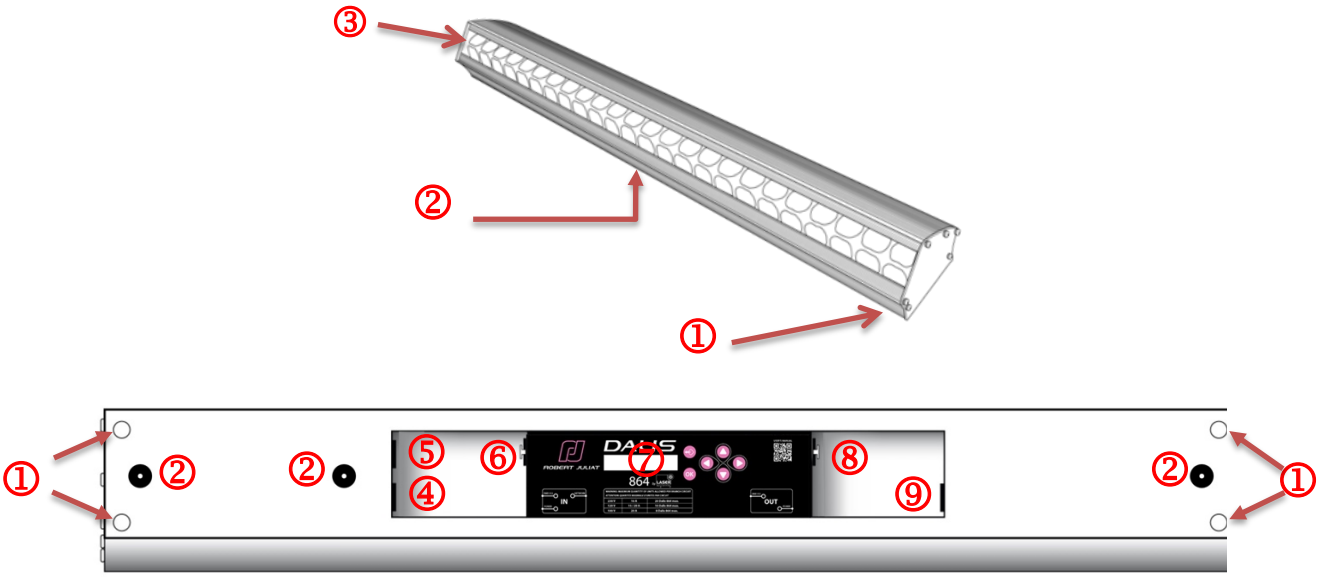
PLEASE NOTE

These products have been built to conform to European standards relating to professional lighting equipment. Any modification made to our products will void the manufacturers' warranty.



2 Presentation

2.1 Functions



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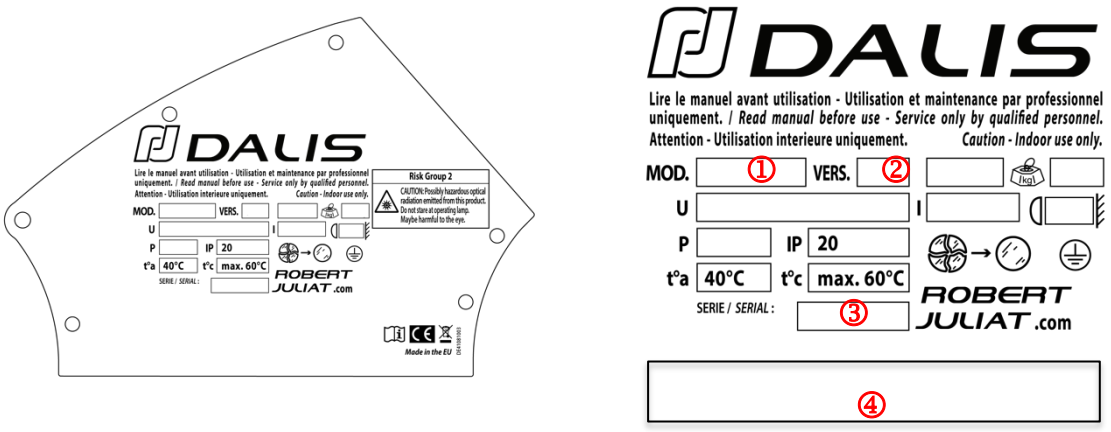
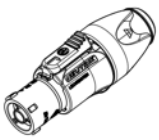
Functions :	
1. Feet 2. M10 thread for rigging (model 864 only) 3. ID plate 4. Power IN 5. DMX IN	6. Network 7. Display and keypad 8. DMX OUT 9. Power OUT

2.2 Identification plate



Description :	
1. Model 2. Version (Hardware version)	3. Serial number 4. Serial number in barcode format

2.3 Accessories included



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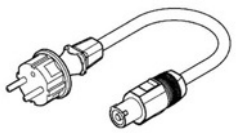
	Reference	Description
1	COU0003305	Neutrik PowerCON© True1 connector (ref. NAC3FX-W)
2	DN41146100	Quick Start manual

2.4 Optional accessories



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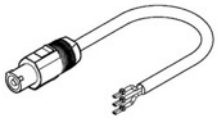

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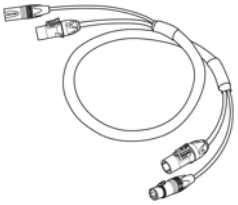

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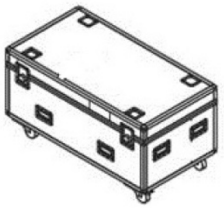

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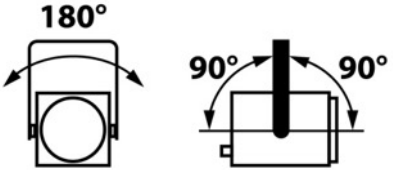
	Reference	Description
1	**CAL03**	3 meter power cable (3G1,5 HO7RNF) with Neutrik PowerCON© True1 and CEE 7/7 (2P+T NF/SCHUKO) connectors
2	**CAL04**	1,50m power cable UL/CSA with Neutrik PowerCON© connector
3	**CAL05**	Combined Neutrik PowerCON© True1 / DMX (5 pins) patch cable - length: 1m
4	**FC860/S**	Flight-case for 6 Dalis
5	**AccessRig**	Rigging hardware set (872 clamps x2 + screws + PECS x1 + CS2 x1)
6	**CS2**	Safety cable Ø3 mm L= 600mm - SWL: 75 Kg
7	**PECS**	Safety cable attachment point + M10 screw + nut indicator

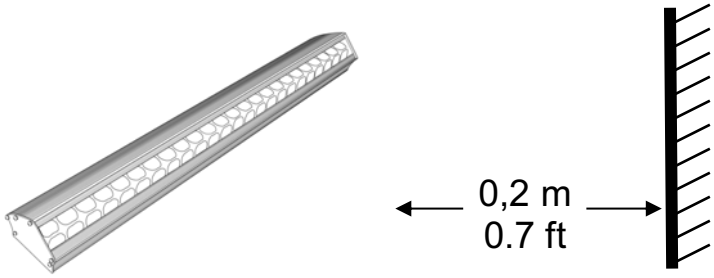
3 Set-up

3.1 Mechanics

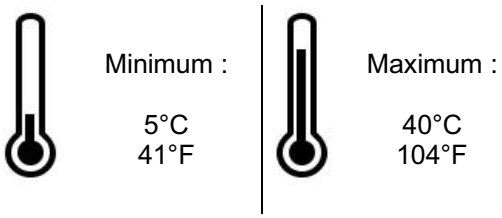
3.1.1 Operating positions



3.1.2 Minimum distance between a flammable material and the lighting unit

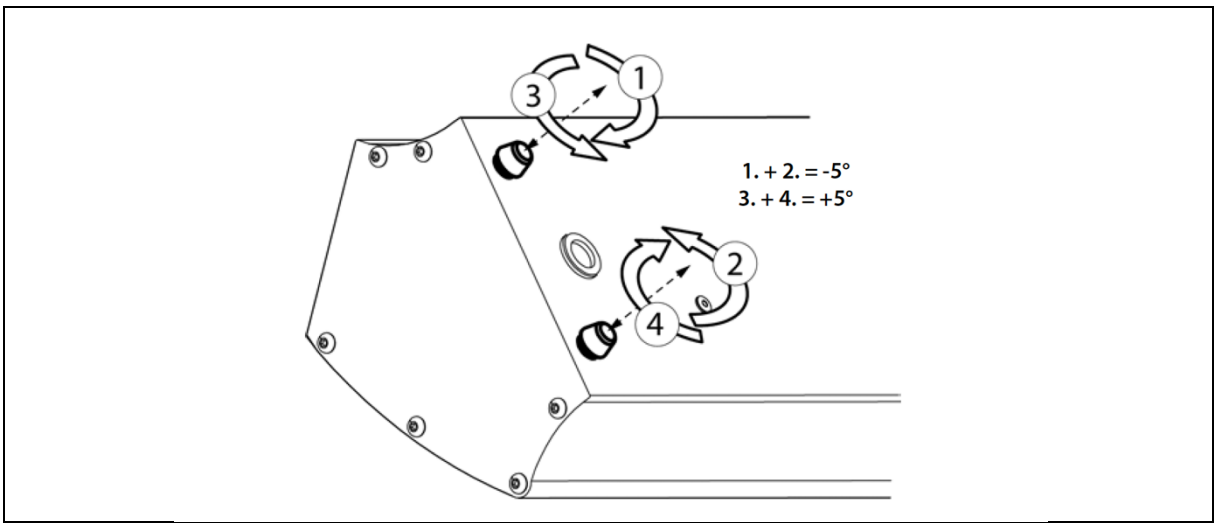


3.1.3 Instructions for use



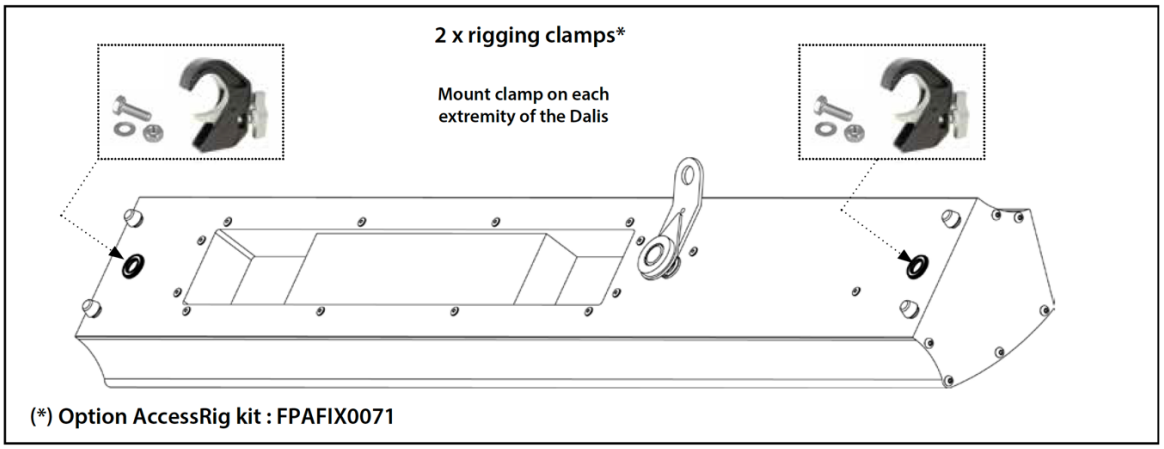
IP20 – Indoor use only

3.1.4 Floor installation



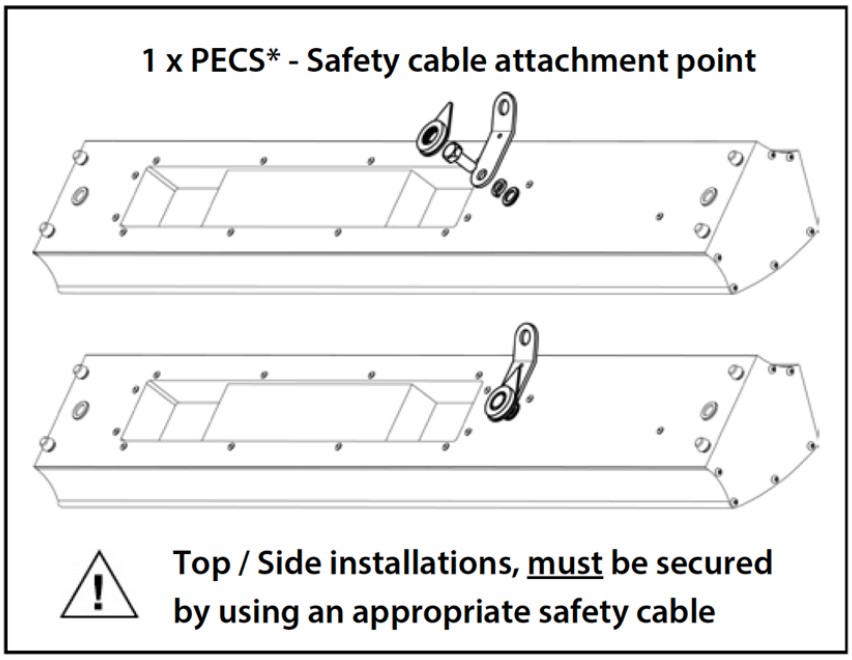
*3.1.5 Installation with clamps – **Model 864 only***

- The fixture can be secured with clamps by using M10 screws on the M10 threads.
- Ensure fixture is correctly mounted on an appropriate support.
- **The fixture must be installed with 2 clamps.**
- Net weight : model 864 : 8.5 Kg
- Center M10 thread can be equipped with eye bolt to attach safety cable.
- Safety cables or bonds must be securely attached to the back of the fixture and be as short as possible, or rolled up as necessary, to minimise travel distance should the fixture be dislodged.



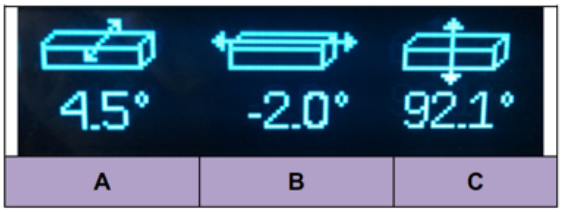
3.1.6 Safety cable.

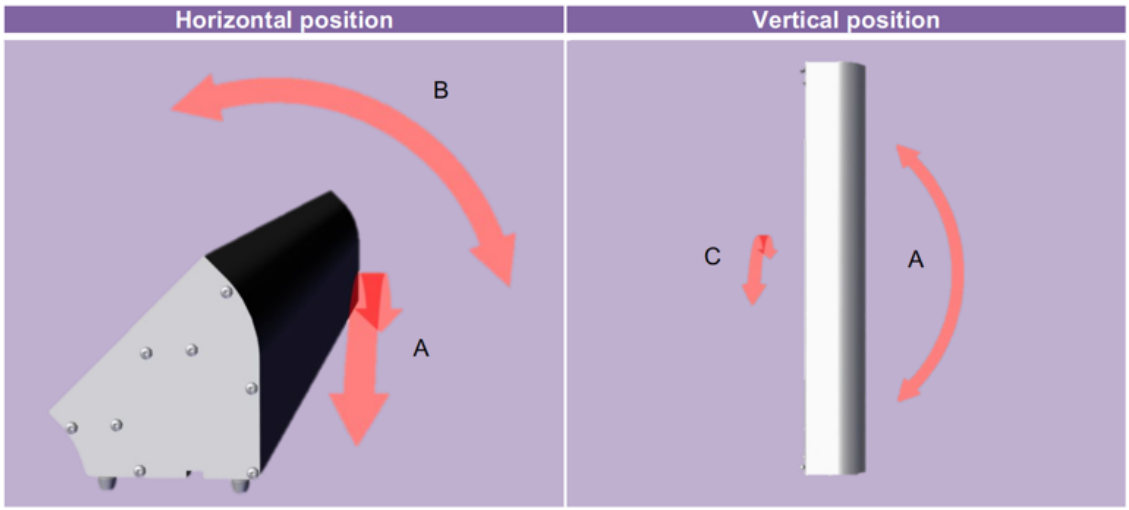
- When hung or flown, the fixture must be secured by an additional hanging accessory (such as safety bond or cable) of suitable length.
- Safety cables or bonds must be securely attached to the back of the fixture and be as short as possible, or rolled up as necessary, to minimise travel distance should the fixture be dislodged.



3.1.7 *Angular sensor*

→ selection in *STATUS/ANGULAR ADJUSTMENT* menu





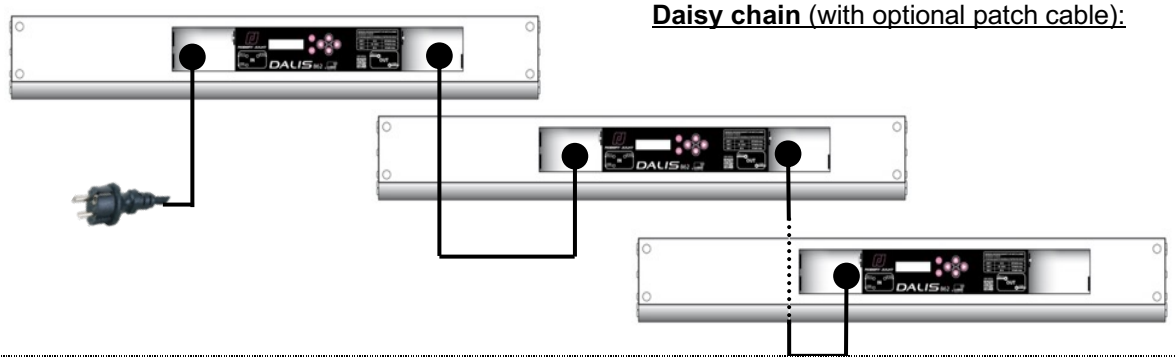
3.2 Electrical

3.2.1 Power

Model	Voltage (V)	Frequency (Hz)	Amps* (A)	PF	Power (W)	Connectors
864	230	50	0,7	0,97	159	Neutrik powerCON TRUE1 ref. NAC3FPX (max. 20A) **see appendix 1 for assembly instructions**
	208	60	0,8	0,97	159	
	120	60	1,4	0,99	162	
	100	60	1,7	0,99	163	
864S	___					(*) Maximum: 1,9A **for 864 only**
	___					Maximum: _,_A **for 864S only**
	___					
	___					

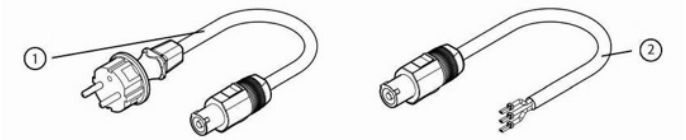
- Class 1 product. **This luminaire must be grounded.**
- Must be connected directly to AC power. **Do not connect to dimmer power**.
- Automatic power detection.
- **Daisy chain:**
  - **Model 864: maximum of 20 units (230V) / 10 units (120V) / 8 units (100V)**
  - **Model 864S: maximum of 30 units (230V) / 15 units (120V) / 12 units (100V)**

Daisy chain (with optional patch cable):

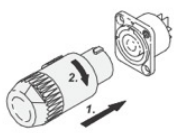


3.2.2 Power cable

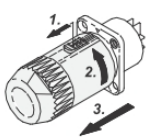
Power cable



Power cable		Connector	Mains plug	Cable type	Cable length	Wiring
1	Standard version	Neutrik PowerCON® NAC3FX	CEE7/7	3G1.5 H07RNF	3 m 9.8 ft	Live: Brown Neutral: Blue Ground: Yellow/Green
2	North American version		-	14AWG SJ TYPE (UL/CSA)	1.5 m 4.9 ft	Live: Black Neutral: White Ground: Green



In



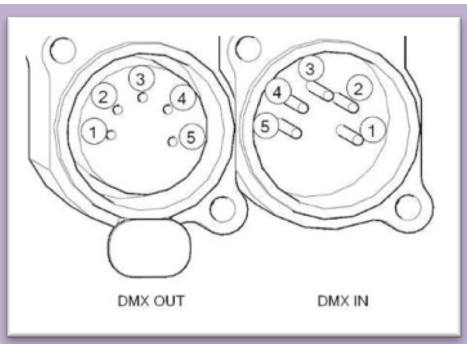
Out

3.3 DATA

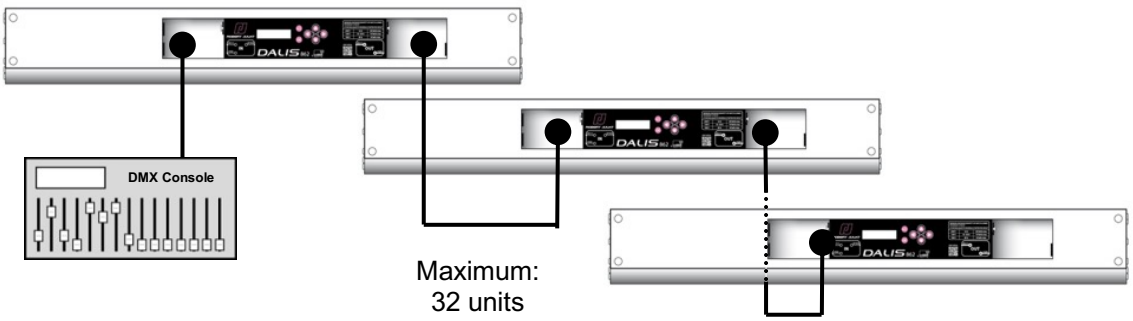
3.3.1 DMX 512-A / RDM

Protocol	Input connector	Output connector
USITT DMX 512-A RDM	XLR 5-pin	XLR 5-pin

DATA connectors		
PIN #	**DMX**	**Description**
1	Shielding	Foil & Braided Shield
2	DMX (-)	1st conductor of 1st twisted pair
3	DMX (+)	2nd conductor of 1st twisted pair
4	Not used	1st conductor of 2nd twisted pair
5	Not used	2nd conductor of 2nd twisted pair

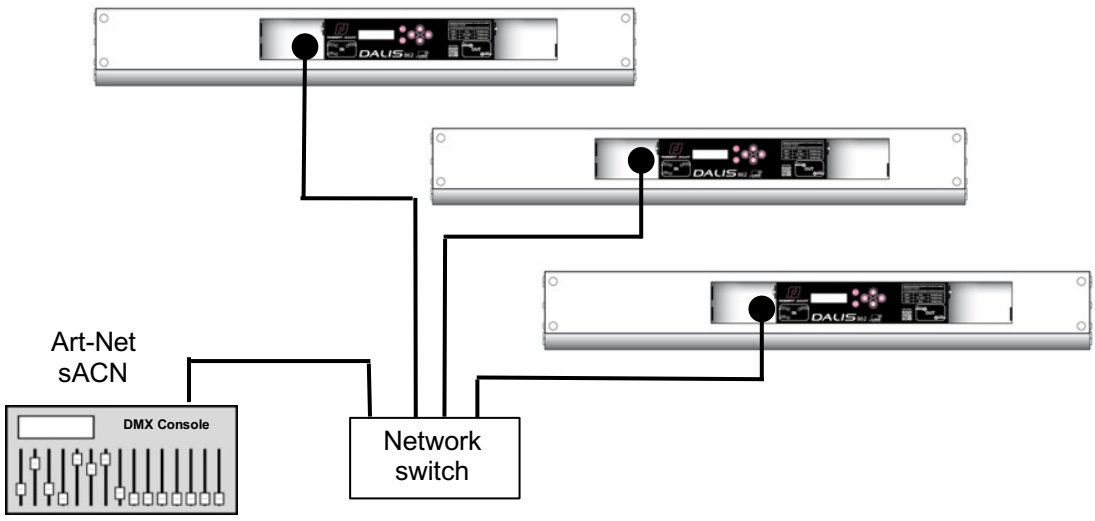


Daisy chain



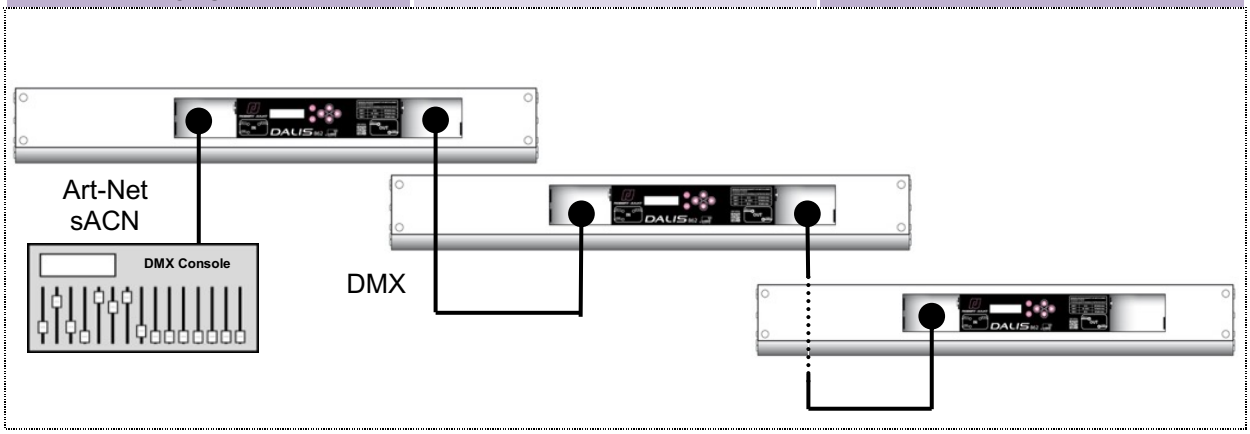
3.3.2 Art-Net / sACN

Protocol	Input connector	Output connector
Art-Net sACN	RJ45	-



3.3.3 *Ethernet/DMX node*

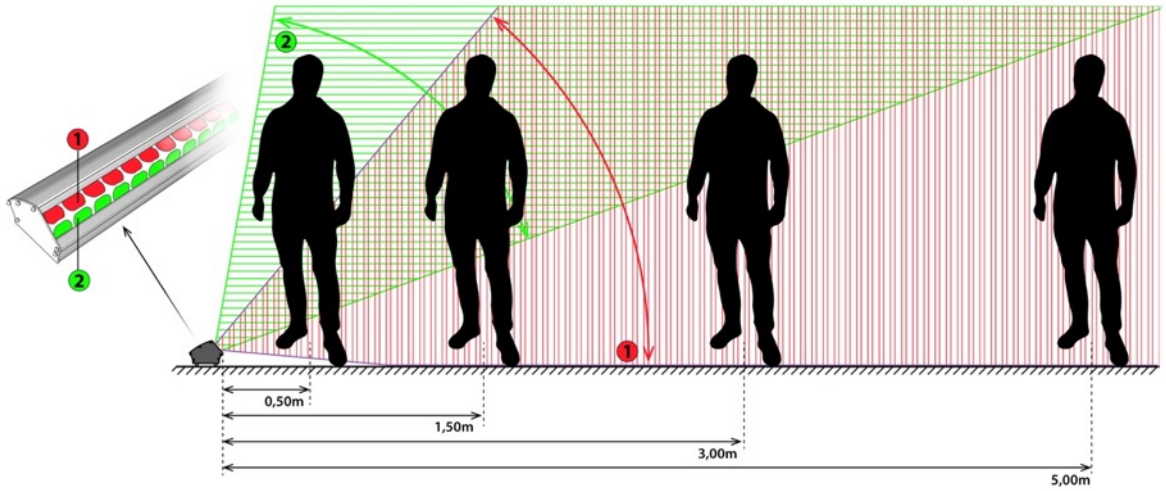
Protocol	Input connector	Output connector
Art-Net sACN	RJ45	DMX



4 Operation

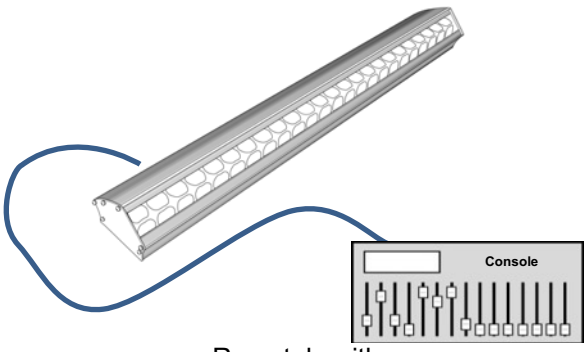
4.1 Light intensity

4.1.1 Range

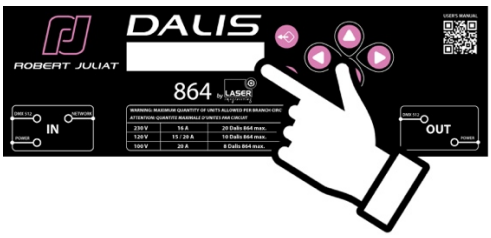


①: Upstage (US) + ②: Downstage (DS)

4.1.2 Control



Remotely with
DMX512-A / Artnet / sACN protocols
Mode 1 – 2 – 3 – 4



Locally via STAND ALONE mode

Mode	Dimmer ① + ②	Dimmer ①	Dimmer ②
Mode 1	X		
Mode 2		X	X
Mode 3		X	X
Mode 4		X	X

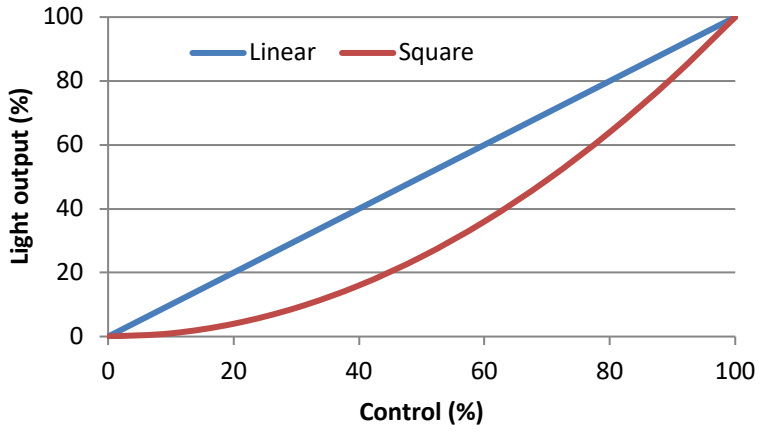
4.1.3 Parameters

4.1.3.1 Dimming resolution

Resolution	DMX mode :
8 bits – 255 steps	3 – STAND ALONE
16 bits – 65 535 steps	1 – 2 – 4

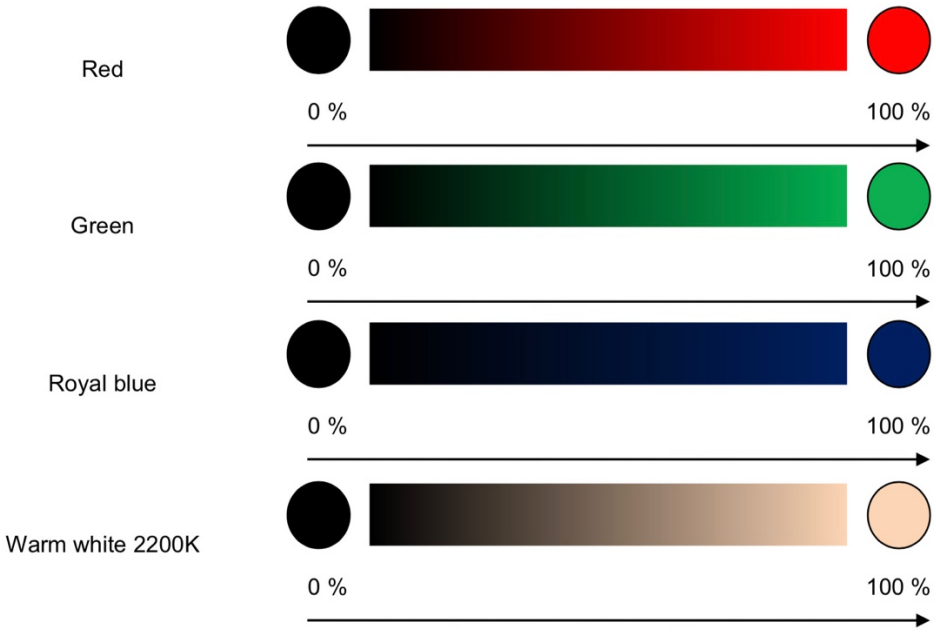
4.1.3.2 Dimming curve

→ selection in *SETUP/DIMMER CURVE* menu: Linear or Square

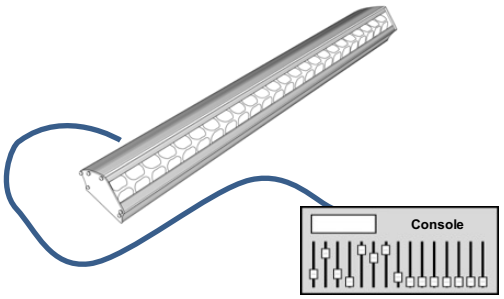


4.2 Colours

4.2.1 Range



4.2.2 Control



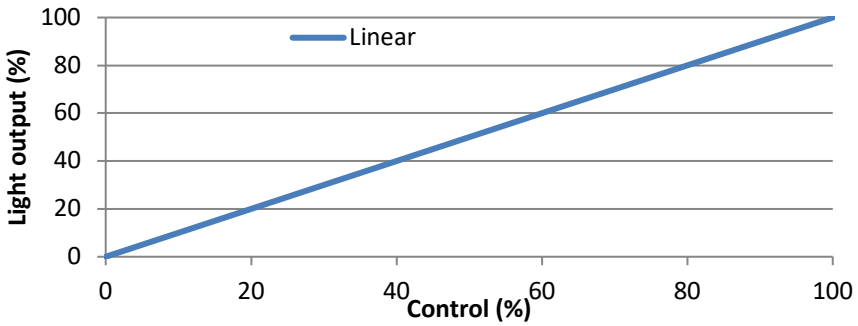
Remotely with
DMX512-A / Art-Net / sACN protocols
Mode 1 – 2 – 3 – 4

4.2.3 Parameters

4.2.3.1 Resolution

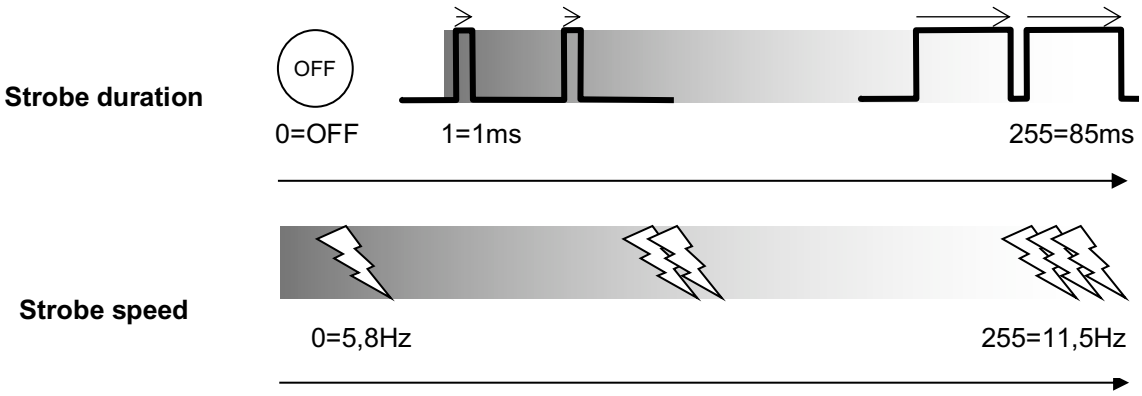
Resolution	DMX mode :
8 bits – 255 steps	3
16 bits – 65 535 steps	1 – 2 – 4

4.2.3.2 *Intensity curve*

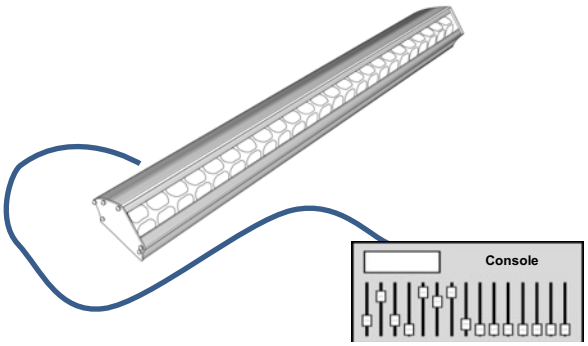


4.3 Strobe

4.3.1 Range



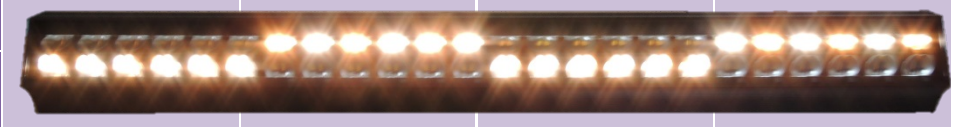
4.3.2 Control



Remotely with
DMX512-A / Art-Net / sACN protocols
Mode 1 – 2 – 3

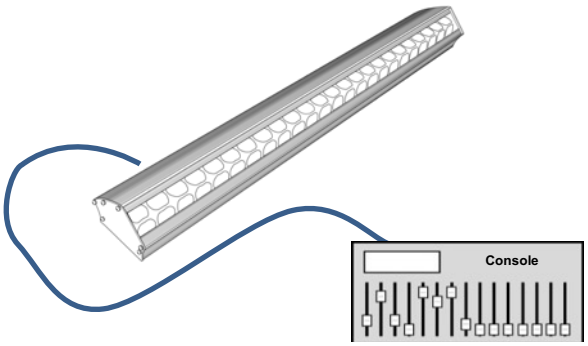
4.4 Group

4.4.1 Range

Model : 864	Group 4	Group 3	Group 2	Group 1
US = Upstage				
DS = Downstage				

Model : 864S	Group 4	Group 3	Group 2	Group 1
US = Upstage				
DS = Downstage				

4.4.2 Control

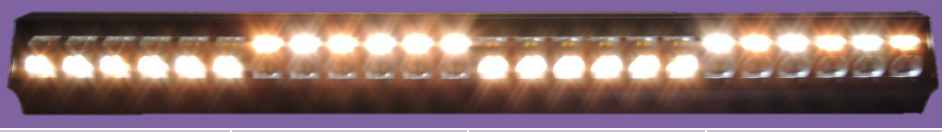


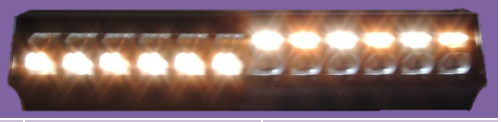
Remotely with
DMX512-A / Art-Net / sACN protocols
Mode 1 – 4

4.4.3 Parameters

4.4.3.1 Group flip

→ Selection in *SETUP/GROUP FLIP* menu

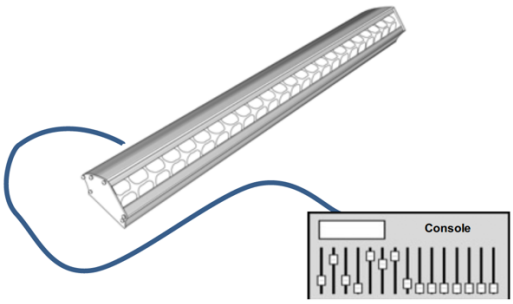
Model : 864				
Group flip : Normal	**Group 4**	**Group 3**	**Group 2**	**Group 1**
Group flip : Flip	**Group 1**	**Group 2**	**Group 3**	**Group 4**

Model : 864S				
Group flip : Normal			**Group 2**	**Group 1**
Group flip : Flip			**Group 1**	**Group 2**

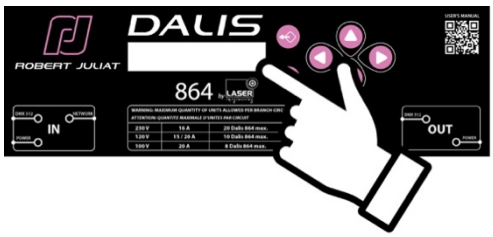
4.5 Response time

4.5.1 Range

4.5.2 Control



Remotely with
DMX512-A / Art-Net / sACN protocols
Mode 1 – 2 – 3



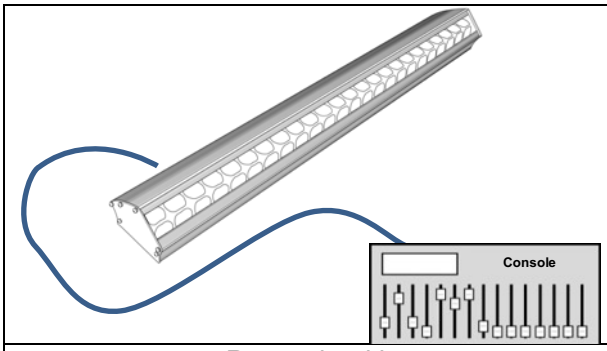
Locally only when DMX mode 4 is selected

4.6 Position light

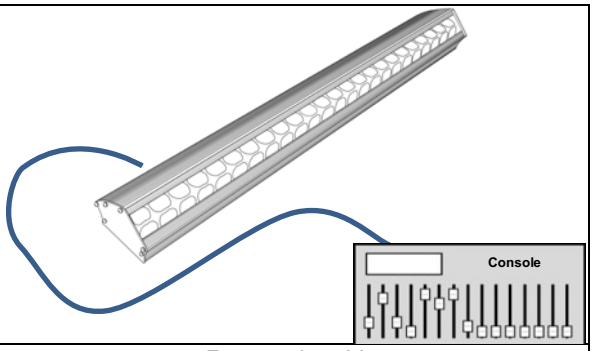
4.6.1 Range

Model: 864	D	C	B	A
Model: 864S			B	A

4.6.2 Control



Remotely with
DMX512-A / Art-Net / sACN protocols
Mode 1 – 2 – 3
→ 3 DMX channels



Remotely with
DMX512-A / Art-Net / sACN protocols
Mode 4
→ 8 / 4 DMX channels (mod. 864/864S)

Blue position lights combination *

D and or C and or B and or A

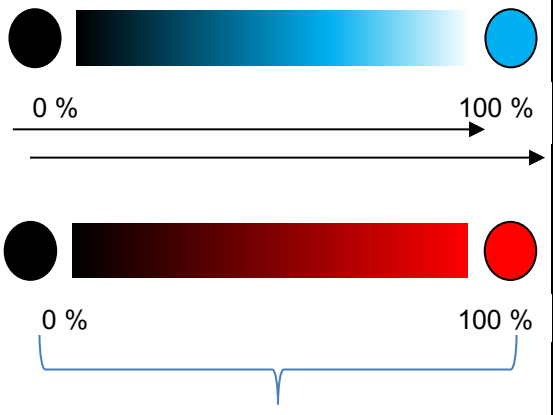
Red position lights combination*

D and or C and or B and or A

+

0 % 100 %

(*) See 5.2.5 DMX ranges



x 4 (mod. 864) / x 2 (mod. 864S)

4.6.3 Parameters

4.6.3.1 Position lights flip

Model : 864	D	C	B	A
POS LIGHTS FLIP: Normal	Group 4	Group 3	Group 2	Group 1
POS LIGHTS FLIP: Flip	Group 1	Group 2	Group 3	Group 4

Model : 864S			B	A
POS LIGHTS FLIP: Normal			Group 2	Group 1
POS LIGHTS FLIP: Flip			Group 1	Group 2

5 Control and parameters

5.1 Local display and Controls

5.1.1 Display

	Function
	Exit the current menu option and/or go back
	Enter the current menu option and/or valid
	Scrolls through menus and/or Increase data value
	Scrolls through menus and/or Decrease data value
	Scrolls through menus and/or Increase data value
	Scrolls through menus and/or Decrease data value

5.1.2 Parameters

5.1.2.1 Display mode

→ Selection in *SETUP/DISPLAY MODE* menu

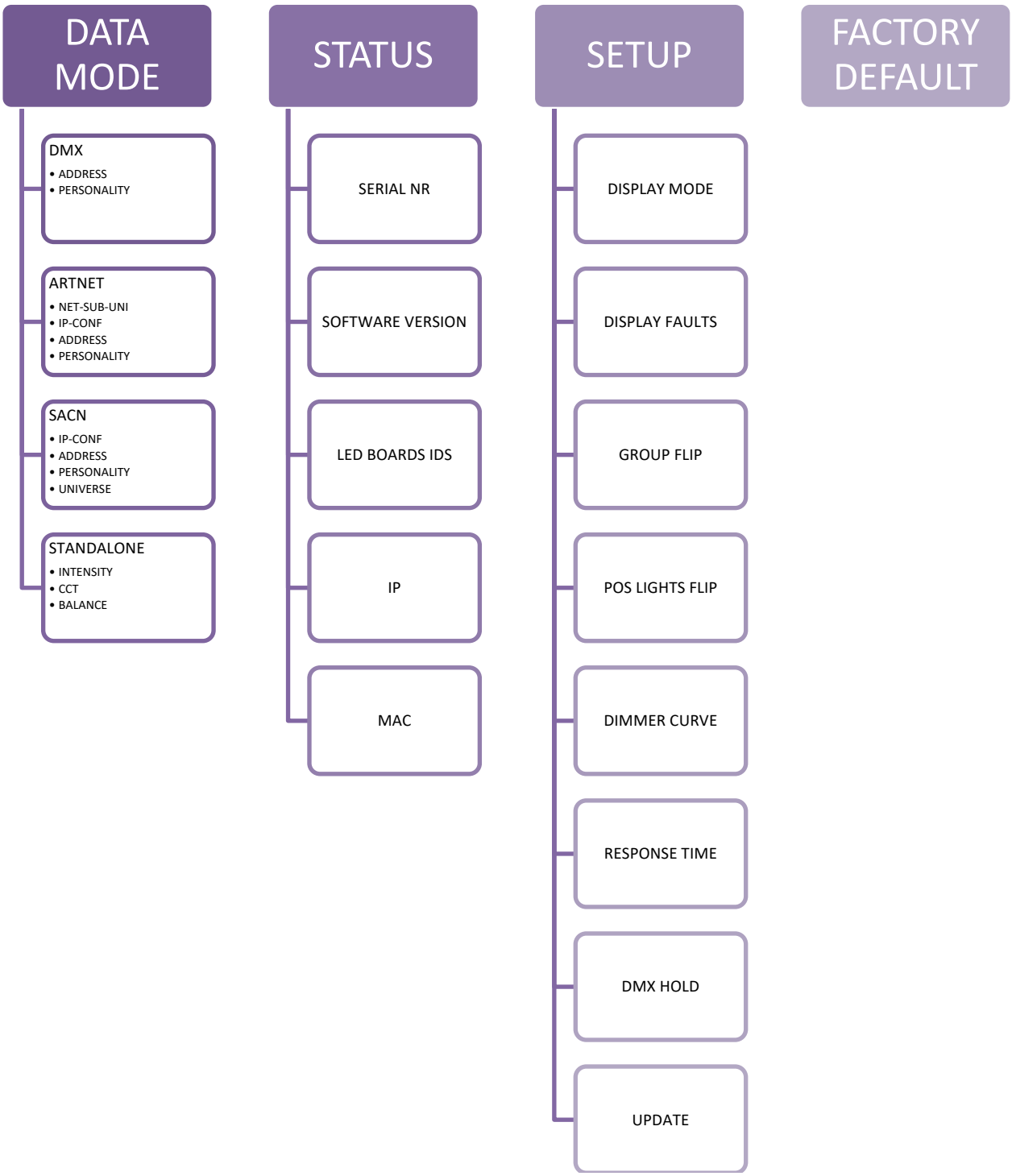
Display	Mode	Description
	Auto-OFF	Main display OFF after 20 seconds
Unit information	Always on	Main display always ON
.	DATA check (dot)	Main display OFF – only a “dot” sign is visible if data detected

5.1.2.2 Display faults

→ Selection in *SETUP/DISPLAY FAULTS* menu

Display	Mode	Description
Unit information DMX error	Warn on faults	Message displayed in case of data error
Unit information	Don’t warn on faults	No message in case of data error – display remains the same

5.1.3 Menus

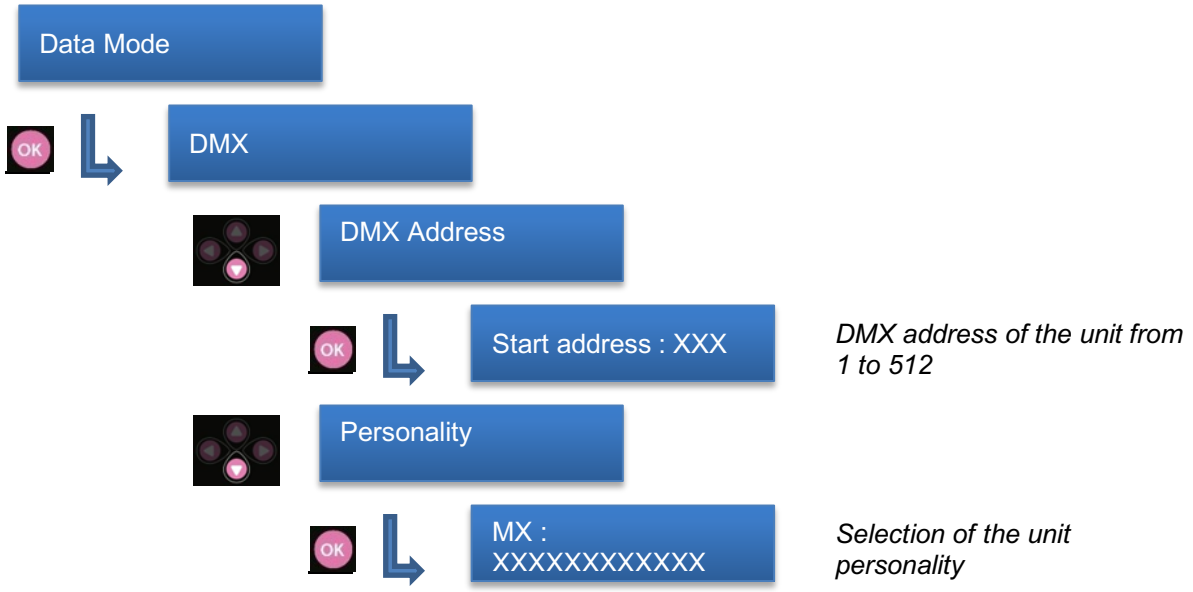

DATA MODE
DMX
• ADDRESS
• PERSONALITY
ARTNET
• NET-SUB-UNI
• IP-CONF
• ADDRESS
• PERSONALITY
SACN
• IP-CONF
• ADDRESS
• PERSONALITY
• UNIVERSE
STANDALONE
• INTENSITY
• CCT
• BALANCE
STATUS
SERIAL NR
SOFTWARE VERSION
LED BOARDS IDS
IP
MAC
SETUP
DISPLAY MODE
DISPLAY FAULTS
GROUP FLIP
POS LIGHTS FLIP
DIMMER CURVE
RESPONSE TIME
DMX HOLD
UPDATE
FACTORY DEFAULT

5.2 DMX512-A remote control

5.2.1 Protocol:

E1.11 – 2008, USITT DMX512-A

5.2.2 Configuration:



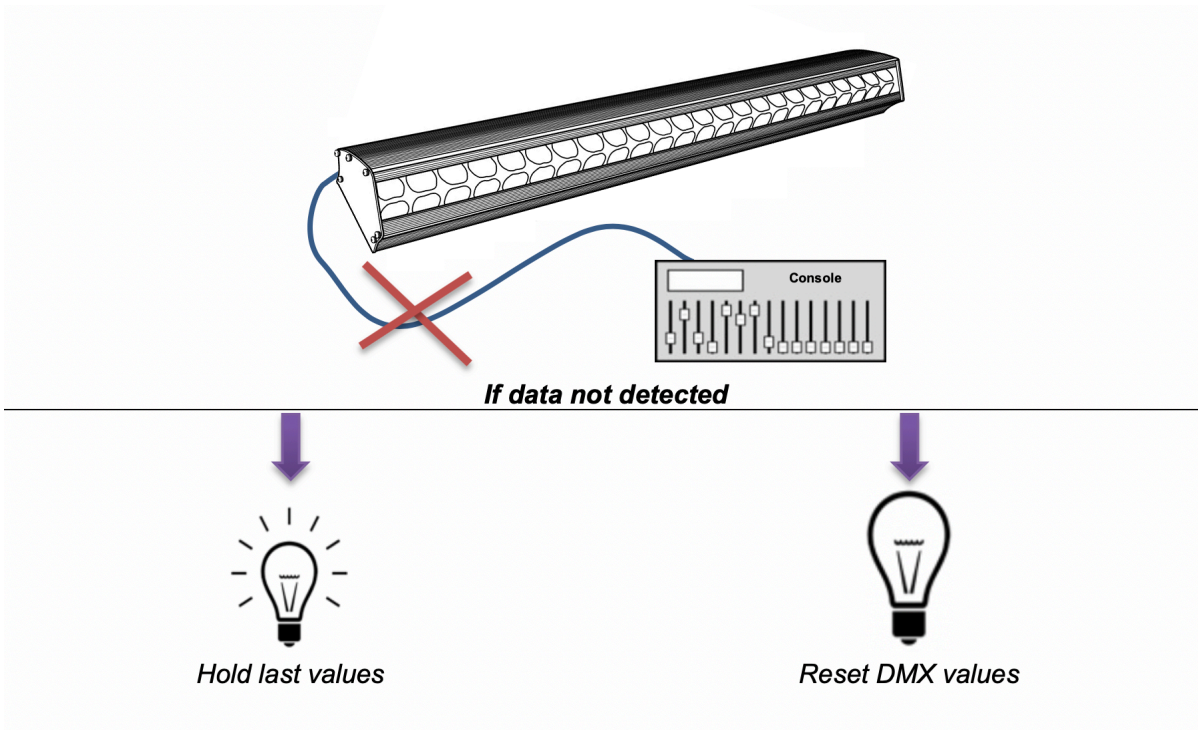
DMX address of the unit from 1 to 512

Selection of the unit personality

5.2.3 Parameters

5.2.3.1 DMX Hold

→ Selection in *SETUP/DMX HOLD menu*



5.2.4 DMX chart:

5.2.4.1 DMX chart: model 864

DMX address	Mode 1: Full4groupsmode16b	Mode 2: Full1groupmode16b	Mode 3: Full1groupmode8b	Mode 4: 4groupsindividual16bits
1	Dimmer	Dimmer - Up Stage	Dimmer - Up Stage	Dimmer - Up Stage 1
2	Dimmer fine	Dimmer fine - Up Stage	Red - Up Stage	Dimmer fine - Up Stage 1
3	Red - Up Stage 1	Red - Up Stage	Green - Up Stage	Red - Up Stage 1
4	Red fine - Up Stage 1	Red fine - Up Stage	Royal blue - Up Stage	Red fine - Up Stage 1
5	Green - Up Stage 1	Green - Up Stage	Warm white - Up Stage	Green - Up Stage 1
6	Green fine - Up Stage 1	Green fine - Up Stage	Dimmer - Down Stage	Green fine - Up Stage 1
7	Royal blue - Up Stage 1	Royal blue - Up Stage	Red - Down Stage	Royal blue - Up Stage 1
8	Royal blue fine - Up Stage 1	Royal blue fine - Up Stage	Green - Down Stage	Royal blue fine - Up Stage 1
9	Warm white - Up Stage 1	Warm white - Up Stage	Royal blue - Down Stage	Warm white - Up Stage 1
10	Warm white fine - Up Stage 1	Warm white fine - Up Stage	Warm white - Down Stage	Warm white fine - Up Stage 1
11	Red - Up Stage 2	Dimmer - Down Stage	Strobe duration	Dimmer - Up Stage 2
12	Red fine - Up Stage 2	Dimmer fine - Down Stage	Strobe speed	Dimmer fine - Up Stage 2
13	Green - Up Stage 2	Red - Down Stage	Response time	Red - Up Stage 2
14	Green fine - Up Stage 2	Red fine - Down Stage	Control mode	Red fine - Up Stage 2
15	Royal blue - Up Stage 2	Green - Down Stage	Blue position	Green - Up Stage 2
16	Royal blue fine - Up Stage 2	Green fine - Down Stage	Red position	Green fine - Up Stage 2
17	Warm white - Up Stage 2	Royal blue - Down Stage	Position Intensity	Royal blue - Up Stage 2
18	Warm white fine - Up Stage 2	Royal blue fine - Down Stage		Royal blue fine - Up Stage 2
19	Red - Up Stage 3	Warm white - Down Stage		Warm white - Up Stage 2
20	Red fine - Up Stage 3	Warm white fine - Down Stage		Warm white fine - Up Stage 2
21	Green - Up Stage 3	Strobe duration		Dimmer - Up Stage 3
22	Green fine - Up Stage 3	Strobe speed		Dimmer fine - Up Stage 3
23	Royal blue - Up Stage 3	Response time		Red - Up Stage 3
24	Royal blue fine - Up Stage 3	Control mode		Red fine - Up Stage 3
25	Warm white - Up Stage 3	Blue position		Green - Up Stage 3
26	Warm white fine - Up Stage 3	Red position		Green fine - Up Stage 3
27	Red - Up Stage 4	Position Intensity		Royal blue - Up Stage 3
28	Red fine - Up Stage 4			Royal blue fine - Up Stage 3
29	Green - Up Stage 4			Warm white - Up Stage 3
30	Green fine - Up Stage 4			Warm white fine - Up Stage 3
31	Royal blue - Up Stage 4			Dimmer - Up Stage 4
32	Royal blue fine - Up Stage 4			Dimmer fine - Up Stage 4
33	Warm white - Up Stage 4			Red - Up Stage 4
34	Warm white fine - Up Stage 4			Red fine - Up Stage 4
35	Red - Down Stage 1			Green - Up Stage 4
36	Red fine - Down Stage 1			Green fine - Up Stage 4
37	Green - Down Stage 1			Royal blue - Up Stage 4
38	Green fine - Down Stage 1			Royal blue fine - Up Stage 4
39	Royal blue - Down Stage 1			Warm white - Up Stage 4
40	Royal blue fine - Down Stage 1			Warm white fine - Up Stage 4
41	Warm white - Down Stage 1			Dimmer - Down Stage 1
42	Warm white fine - Down Stage 1			Dimmer fine - Down Stage 1
43	Red - Down Stage 2			Red - Down Stage 1
44	Red fine - Down Stage 2			Red fine - Down Stage 1
45	Green - Down Stage 2			Green - Down Stage 1
46	Green fine - Down Stage 2			Green fine - Down Stage 1
47	Royal blue - Down Stage 2			Royal blue - Down Stage 1
48	Royal blue fine - Down Stage 2			Royal blue fine - Down Stage 1
49	Warm white - Down Stage 2			Warm white - Down Stage 1
50	Warm white fine - Down Stage 2			Warm white fine - Down Stage 1
51	Red - Down Stage 3			Blue position intensity - 1
52	Red fine - Down Stage 3			Red position intensity - 1
53	Green - Down Stage 3			Dimmer - Down Stage 2
54	Green fine - Down Stage 3			Dimmer fine - Down Stage 2
55	Royal blue - Down Stage 3			Red - Down Stage 2
56	Royal blue fine - Down Stage 3			Red fine - Down Stage 2
57	Warm white - Down Stage 3			Green - Down Stage 2
58	Warm white fine - Down Stage 3			Green fine - Down Stage 2
59	Red - Down Stage 4			Royal blue - Down Stage 2
60	Red fine - Down Stage 4			Royal blue fine - Down Stage 2
61	Green - Down Stage 4			Warm white - Down Stage 2
62	Green fine - Down Stage 4			Warm white fine - Down Stage 2
63	Royal blue - Down Stage 4			Blue position intensity - 2
64	Royal blue fine - Down Stage 4			Red position intensity - 2
65	Warm white - Down Stage 4			Dimmer - Down Stage 3
66	Warm white fine - Down Stage 4			Dimmer fine - Down Stage 3
67	Strobe duration			Red - Down Stage 3
68	Strobe speed			Red fine - Down Stage 3
69	Response time			Green - Down Stage 3
70	Control mode			Green fine - Down Stage 3
71	Blue position			Royal blue - Down Stage 3
72	Red position			Royal blue fine - Down Stage 3
73	Position Intensity			Warm white - Down Stage 3
74				Warm white fine - Down Stage 3
75				Blue position intensity - 3
76				Red position intensity - 3
77				Dimmer - Down Stage 4
78				Dimmer fine - Down Stage 4
79				Red - Down Stage 4
80				Red fine - Down Stage 4
81				Green - Down Stage 4
82				Green fine - Down Stage 4
83				Royal blue - Down Stage 4
84				Royal blue fine - Down Stage 4
85				Warm white - Down Stage 4
86				Warm white fine - Down Stage 4
87				Blue position intensity - 4
88				Red position intensity - 4

5.2.4.2 DMX chart model 864S

DMX address	Mode 1: Full4groupsmode16b	Mode 2: Full1groupmode16b	Mode 3: Full1groupmode8b	Mode 4: 4groupsindividual16bits
1	Dimmer	Dimmer - Up Stage	Dimmer - Up Stage	Dimmer - Up Stage 1
2	Dimmer fine	Dimmer fine - Up Stage	Red - Up Stage	Dimmer fine - Up Stage 1
3	Red - Up Stage 1	Red - Up Stage	Green - Up Stage	Red - Up Stage 1
4	Red fine - Up Stage 1	Red fine - Up Stage	Royal blue - Up Stage	Red fine - Up Stage 1
5	Green - Up Stage 1	Green - Up Stage	Warm white - Up Stage	Green - Up Stage 1
6	Green fine - Up Stage 1	Green fine - Up Stage	Dimmer - Down Stage	Green fine - Up Stage 1
7	Royal blue - Up Stage 1	Royal blue - Up Stage	Red - Down Stage	Royal blue - Up Stage 1
8	Royal blue fine - Up Stage 1	Royal blue fine - Up Stage	Green - Down Stage	Royal blue fine - Up Stage 1
9	Warm white - Up Stage 1	Warm white - Up Stage	Royal blue - Down Stage	Warm white - Up Stage 1
10	Warm white fine - Up Stage 1	Warm white fine - Up Stage	Warm white - Down Stage	Warm white fine - Up Stage 1
11	Red - Up Stage 2	Dimmer - Down Stage	Strobe duration	Dimmer - Up Stage 2
12	Red fine - Up Stage 2	Dimmer fine - Down Stage	Strobe speed	Dimmer fine - Up Stage 2
13	Green - Up Stage 2	Red - Down Stage	Response time	Red - Up Stage 2
14	Green fine - Up Stage 2	Red fine - Down Stage	Control mode	Red fine - Up Stage 2
15	Royal blue - Up Stage 2	Green - Down Stage	Blue position	Green - Up Stage 2
16	Royal blue fine - Up Stage 2	Green fine - Down Stage	Red position	Green fine - Up Stage 2
17	Warm white - Up Stage 2	Royal blue - Down Stage	Position Intensity	Royal blue - Up Stage 2
18	Warm white fine - Up Stage 2	Royal blue fine - Down Stage		Royal blue fine - Up Stage 2
19	Red - Down Stage 1	Warm white - Down Stage		Warm white - Up Stage 2
20	Red fine - Down Stage 1	Warm white fine - Down Stage		Warm white fine - Up Stage 2
21	Green - Down Stage 1	Strobe duration		Dimmer - Down Stage 1
22	Green fine - Down Stage 1	Strobe speed		Dimmer fine - Down Stage 1
23	Royal blue - Down Stage 1	Response time		Red - Down Stage 1
24	Royal blue fine - Down Stage 1	Control mode		Red fine - Down Stage 1
25	Warm white - Down Stage 1	Blue position		Green - Down Stage 1
26	Warm white fine - Down Stage 1	Red position		Green fine - Down Stage 1
27	Red - Down Stage 2	Position Intensity		Royal blue - Down Stage 1
28	Red fine - Down Stage 2			Royal blue fine - Down Stage 1
29	Green - Down Stage 2			Warm white - Down Stage 1
30	Green fine - Down Stage 2			Warm white fine - Down Stage 1
31	Royal blue - Down Stage 2			Blue position intensity - 1
32	Royal blue fine - Down Stage 2			Red position intensity - 1
33	Warm white - Down Stage 2			Dimmer - Down Stage 2
34	Warm white fine - Down Stage 2			Dimmer fine - Down Stage 2
35	Strobe duration			Red - Down Stage 2
36	Strobe speed			Red fine - Down Stage 2
37	Response time			Green - Down Stage 2
38	Control mode			Green fine - Down Stage 2
39	Blue position			Royal blue - Down Stage 2
40	Red position			Royal blue fine - Down Stage 2
41	Position Intensity			Warm white - Down Stage 2
42				Warm white fine - Down Stage 2
43				Blue position intensity - 2
44				Red position intensity - 2

5.2.5 DMX ranges:

5.2.5.1 Strobe duration

Range min	Range max	Function
0	0	Strobe OFF
1	255	Strobe ON - 1ms --> 85ms

5.2.5.2 Strobe speed

Range min	Range max	Function
0	255	Frequency: 5,8 Hz --> 11,5 Hz

5.2.5.3 Response time

Range min	Range max	Function
0	250	Dimmer timing: 0,1s --> 4 s
251	255	OFF

5.2.5.4 Control mode

Range min	Range max	Function
0	0	
1	255	RDM desactivated

5.2.5.5 Blue position (864)

Range min	Range max	Position D	Position C	Position B	Position A	Description
0	10	○	○	○	○	Fixed light
11	20	⊙	⊙	⊙	⊙	Fixed light
21	30	○	⊙	⊙	○	Fixed light
31	40	⊙	○	○	⊙	Fixed light
41	50	⊙	○	○	○	Fixed light
51	60	⊙	⊙	○	○	Fixed light
61	70	⊙	⊙	⊙	○	Fixed light
71	80	○	○	○	⊙	Fixed light
81	90	○	○	⊙	⊙	Fixed light
91	100	○	⊙	⊙	⊙	Fixed light
101	110	○	⊙	○	○	Fixed light
111	120	○	○	⊙	○	Fixed light
121	130	⊙	○	⊙	○	Fixed light
131	140	○	⊙	○	⊙	Fixed light
141	150	⊙	⊙	○	⊙	Fixed light
151	160	⊙	○	⊙	⊙	Fixed light
161	170	✹	✹	✹	✹	Flash
171	180	○	✹	✹	○	Flash
181	190	✹	○	○	✹	Flash
191	200	✹	✹	○	○	Flash
201	210	○	○	✹	✹	Flash

5.2.5.6 *Blue position (864S)*

Range min	Range max	Position B	Position A	Description
0	10	○	○	Fixed light
11	20	⊙	⊙	Fixed light
21	30	○	⊙	Fixed light
31	40	⊙	○	Fixed light
41	50	⊙	○	Fixed light
51	60	⊙	⊙	Fixed light
61	70	⊙	⊙	Fixed light
71	80	○	○	Fixed light
81	90	○	○	Fixed light
91	100	○	⊙	Fixed light
101	110	○	⊙	Fixed light
111	120	○	○	Fixed light
121	130	⊙	○	Fixed light
131	140	○	⊙	Fixed light
141	150	⊙	⊙	Fixed light
151	160	⊙	○	Fixed light
161	170	✹	✹	Flash
171	180	○	✹	Flash
181	190	✹	○	Flash
191	200	✹	✹	Flash
201	210	○	○	Flash

5.2.5.7 *Red position (864)*

Range min	Range max	Position D	Position C	Position B	Position A	Description
0	10	○	○	○	○	Fixed light
11	20	⊙	⊙	⊙	⊙	Fixed light
21	30	○	⊙	⊙	○	Fixed light
31	40	⊙	○	○	⊙	Fixed light
41	50	⊙	○	○	○	Fixed light
51	60	⊙	⊙	○	○	Fixed light
61	70	⊙	⊙	⊙	○	Fixed light
71	80	○	○	○	⊙	Fixed light
81	90	○	○	⊙	⊙	Fixed light
91	100	○	⊙	⊙	⊙	Fixed light
101	110	○	⊙	○	○	Fixed light
111	120	○	○	⊙	○	Fixed light
121	130	⊙	○	⊙	○	Fixed light
131	140	○	⊙	○	⊙	Fixed light
141	150	⊙	⊙	○	⊙	Fixed light
151	160	⊙	○	⊙	⊙	Fixed light
161	170	✹	✹	✹	✹	Flash
171	180	○	✹	✹	○	Flash
181	190	✹	○	○	✹	Flash
191	200	✹	✹	○	○	Flash
201	210	○	○	✹	✹	Flash

5.2.5.8 *Red position (864S)*

Range min	Range max	Position B	Position A	Description
0	10	○	○	Fixed light
11	20	⊙	⊙	Fixed light
21	30	○	⊙	Fixed light
31	40	⊙	○	Fixed light
41	50	⊙	○	Fixed light
51	60	⊙	⊙	Fixed light
61	70	⊙	⊙	Fixed light
71	80	○	○	Fixed light
81	90	○	○	Fixed light
91	100	○	⊙	Fixed light
101	110	○	⊙	Fixed light
111	120	○	○	Fixed light
121	130	⊙	○	Fixed light
131	140	○	⊙	Fixed light
141	150	⊙	⊙	Fixed light
151	160	⊙	○	Fixed light
161	170	✹	✹	Flash
171	180	○	✹	Flash
181	190	✹	○	Flash
191	200	✹	✹	Flash
201	210	○	○	Flash

5.3 RDM remote control

5.3.1 Protocol:

ANSI E1.20 – 2010 / ANSI E1.37 - 1

For more information about RDM protocol: http://www.rdmprotocol.org/

5.3.2 Functions:

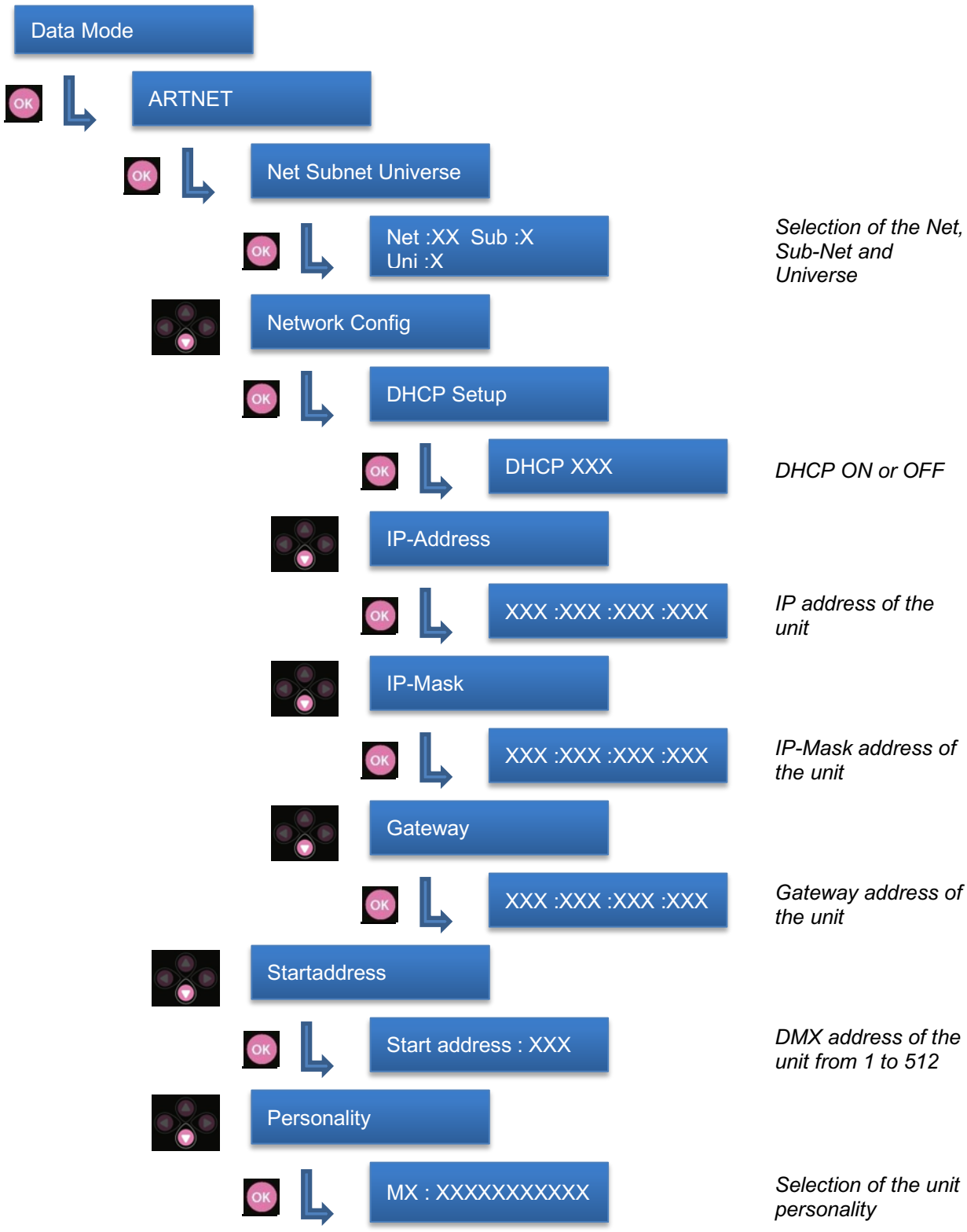
PID	Description	Commentary	ID	UID Description	get	set
Ox0002	DiscoveryMute					
Ox0003	DiscoveryUnmute					
Ox0050	(Get) SupportedParameters				X	
Ox0060	(Get) DeviceInfo				X	
Ox0070	(Get) ProductDetailIDList				X	
Ox0080	(Get) DeviceModelDescription				X	
Ox0081	(Get) ManufacturerLabel				X	
Ox0082	(Get/Set) DeviceLabel				X	X
Ox0090	(Get/Set) FactoryDefaults				X	X
Ox00C0	(Get) SoftwareVersionLabel				X	
Ox00E0	(Get/Set) DMX512Personality				X	
Ox00E1	(Get) DMX512PersonalityDescription				X	
Ox00F0	(Get/Set) DMX512StartingAddress				X	X
Ox0120	(Get) SlotInfo				X	
Ox0121	(Get) SlotDescription				X	
Ox0200	(Get) SensorDefinition				X	
Ox0201	(Get) SensorValue				X	
Ox0343	(Get/Set) Curve	E1.37-1			X	X
Ox0344	(Get) CurveDescription	E1.37-1			X	
Ox0345	(Get/Set) OutputResponseTime	E1.37-1			X	X
Ox0346	(Get) OutputResponseTimeDescription	E1.37-1			X	
Ox0400	(Get) DeviceHours				X	
Ox0401	(Get) LampHours				X	
Ox0500	(Get/Set) Display Invert				X	X
Ox0501	(Get/Set) Display Level				X	X
Ox0601	(Get/Set) Tilt Invert				X	X
Ox0641	(Get/Set) LockState	E1.37-1			X	X
Ox0642	(Get) LockStateDescription	E1.37-1			X	
Ox1000	(Get/set) IdentifyDevice				X	X

5.4 Art-Net remote control

5.4.1 Protocol: ***Artistic Licence Art-Net***

For more information about RDM protocol: http://art-net.org.uk/

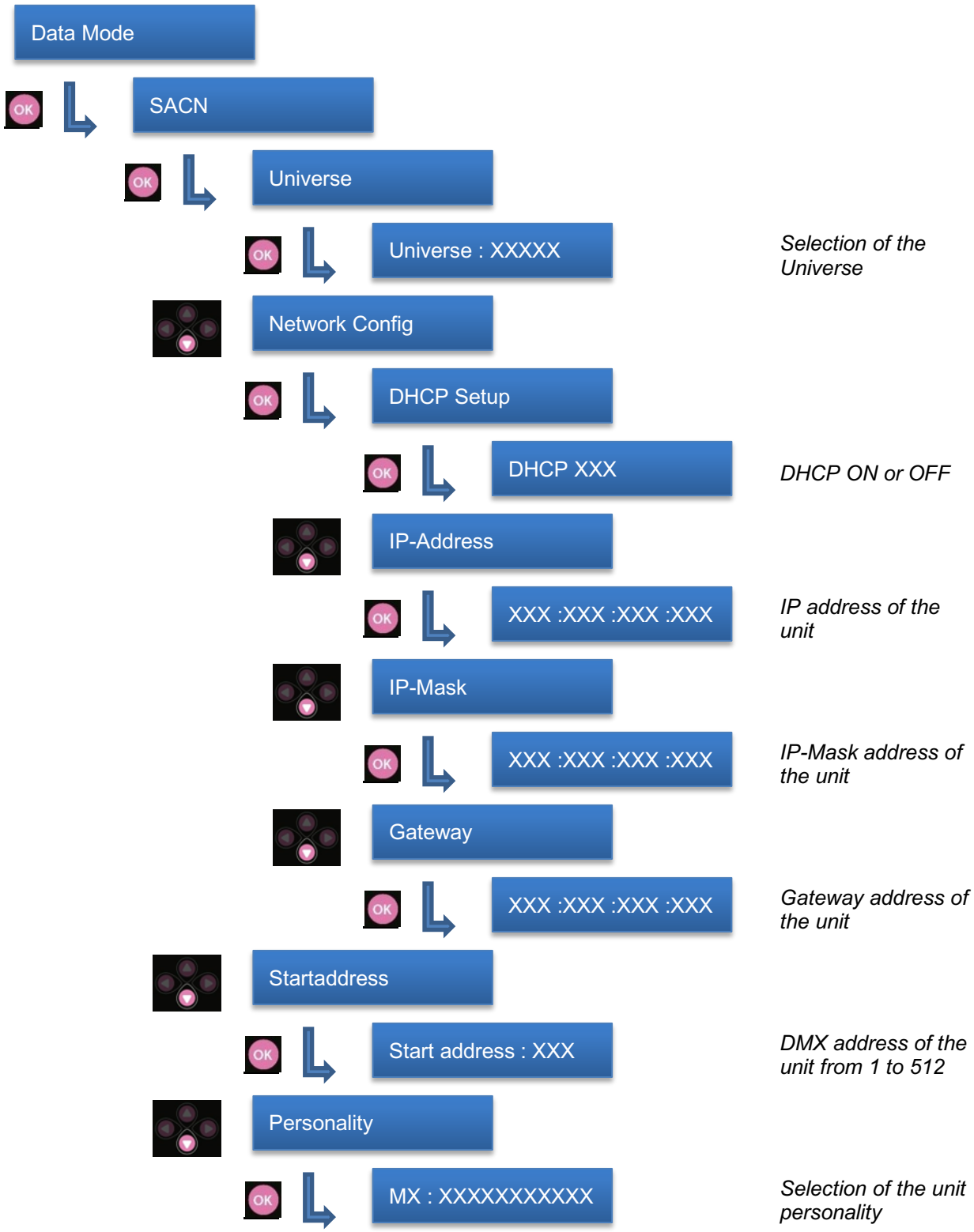
5.4.2 Configuration:



5.5 sACN remote control

5.5.1 *Protocol:* ***ANSI E1.31 – 2009 sACN (Streaming-ACN)***

5.5.2 *Configuration:*



6 Service

6.1 Preventive maintenance

6.1.1 Frequency

General maintenance should be performed at least once a year or more frequently if the equipment is operated in adverse conditions (smoke, heat, humidity, touring, etc.).

6.1.2 General cleaning

Remove dust from the unit.
Front glasses can be cleaned with solutions containing alcohol.

6.1.3 General visual check

- No trace of heat.
- No loose contacts.
- No missing parts.
- Tighten mechanical assemblies (screws, bolts and nuts, etc.).

6.2 Analysis

In case of problem, contact RJ distributor with the following information:

- Model, version and serial number of the product.
- From the menu status:
  - Software version
  - LED board IDs
  - Device hours
- Description of the problem.

6.3 Electronic thermal management system

In case of overheating, light intensity will be reduced by the system. “Power reduction X%” will be shown on the display with the reducing percentage.

6.4 Firmware update

1. Firmware available on www.robertjuliat.com
2. Download and unzip the file
3. Switch on Dalis and config IP address (*DATAMODE>ARTNET>IP-CONF*):
   a. *DHCP* = OFF
   b. *ADDRESS* = AAA.BBB.CCC.XXX
   c. *MASK* = 255.0.0.0
   d. Exit to main menu to validate modifications
4. Set the Network IP of the computer :
   a. *ADDRESS* = AAA.BBB.CCC.YYY with YYY ≠ XXX
   b. *MASK* = 255.0.0.0
5. Connect Network from computer to Dalis, if you don´t have an Auto MDI-X or a switch, use a cross link cable
6. Open a web browser (Internet Explorer, Firefox, Chrome…)
7. Enter the URL address of the Dalis: http://AAA.BBB.CCC.XXX
8. First, install the Main Program
   a. Select the firmware file dalis860_VX.XX.upd
   b. Press submit button
9. Install the Bootloader
   a. Select the firmware file dalis_bootloaderVX.XX_boot.upd
   b. Press submit button
10. Update message displays on Dalis display
11. When the update is completed, the Dalis shows the new firmware version

6.5 Factory defaults

Select FACTORY DEFAULT in the main menu to reset all values and parametres

EN

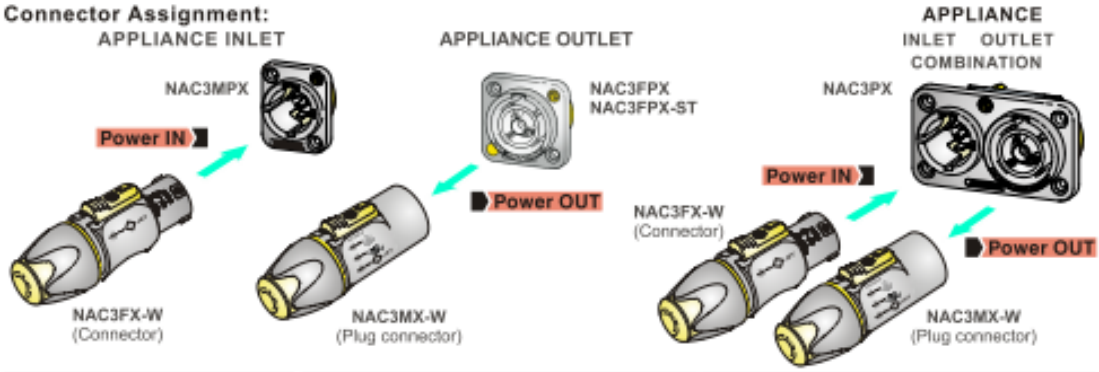
APPENDIX 1

OPERATING & ASSEMBLY INSTRUCTION
NAC3FX-W | powerCON TRUE1

A. OPERATING INSTRUCTION

Application:
The powerCON TRUE1 system is certified as connector with breaking capacity according IEC 60320, VDE 0625. It is intended for use as appliance couplers and interconnection couplers. It serves to supply power to an appliance and from an appliance to another equipment. To be installed by qualified person only.

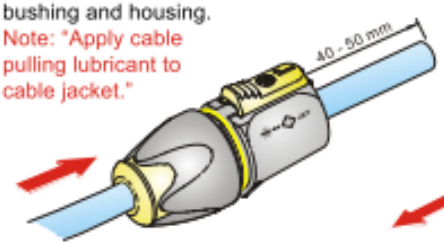
Connector Assignment:



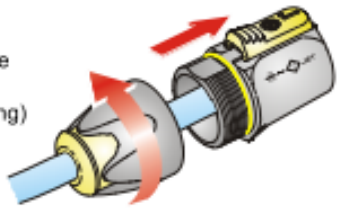
Approval based:	VDE EN 60320-1/EN60320-2-2 ✓	UL UL 498 / CSA C22.2 No. 182.3 ✓
Rating:	250 V ac / 16 A	250 V ac / 20 A
Cable Type:	H05VV-F3G 1.0 mm², Length max. 2 m H05VV-F3G 1.5 - 2.5 mm² H07RN-F3G 1.5 mm²	SJTOW, SJOOW 3 x 12 AWG
Strain Relief:	White chuck	White chuck
Cable O.D.:	6.0 - 12.0 mm	6.0 - 12.0 mm

B. ASSEMBLY INSTRUCTION

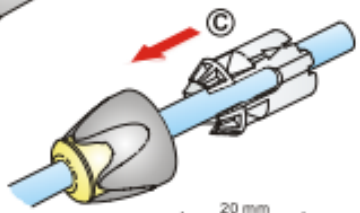
Ⓐ Insert cable into the bushing and housing.
Note: "Apply cable pulling lubricant to cable jacket."



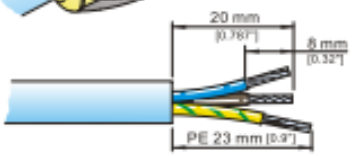
Ⓑ Separate the housing from the bushing (cable remain in bushing)

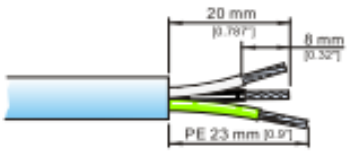


Ⓒ Place chuck over the cable.



Ⓓ Prepare cable as shown.



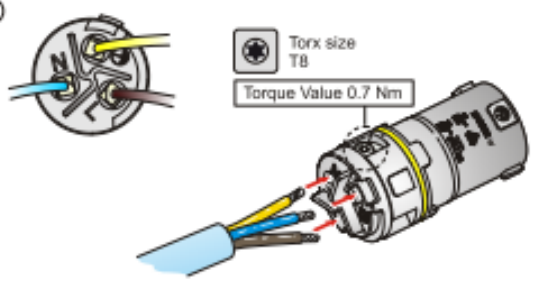


VDE (EN 60320-1/EN60320-2-2) | **UL** (UL 498 / CSA C22.2 No. 182.3)

EN

APPENDIX 1

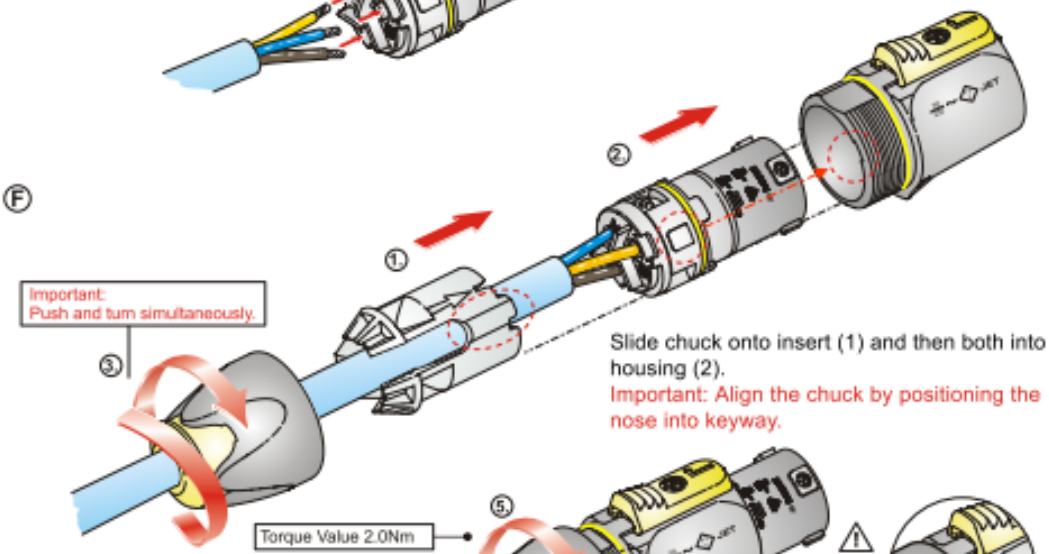
Ⓔ



Slide the cable into the contacts and clamp with the screw with Torx size T8.

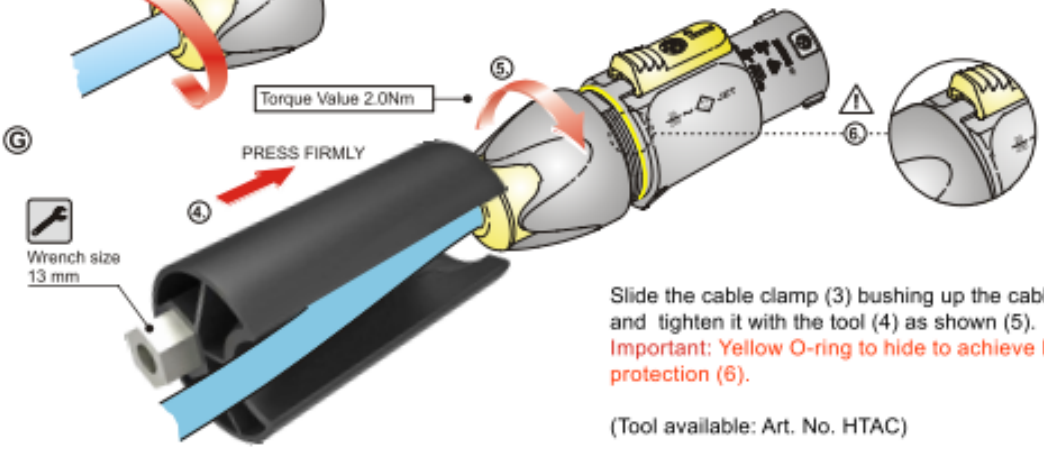
Wiring	VDE	UL
L ⇒	brown	black
N ⇒	blue	white
⏚ ⇒	green/yellow	green

Ⓕ



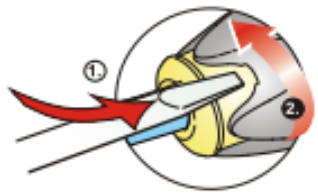
Slide chuck onto insert (1) and then both into housing (2).
Important: Align the chuck by positioning the nose into keyway.

Ⓖ



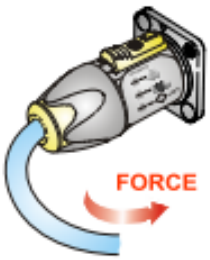
Slide the cable clamp (3) bushing up the cable and tighten it with the tool (4) as shown (5).
Important: Yellow O-ring to hide to achieve IP protection (6).

(Tool available: Art. No. HTAC)



Disassembly (open twist lock):

1. Press with screw driver to unlock
2. Turn bushing while still pressing locking.



CAUTION

To ensure protection category, do not expose the connection to bending forces (e.g. do not attach loads to the cable, no free-dangling cable windings etc.).

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