

INGRESSO

- Nominale AC: 110/127 Vac ^{-10/+10 %} 50/60Hz
220/240 Vac ^{-10/+10 %} 50/60Hz
- Range DC: 176/275 Vdc per applicazioni d'emergenza secondo EN 50171/EN 50172.
- Morsetteria 1 x 0.75... 1.5 mm².
- Corrente massima: 0.20 A.
- Fattore di potenza λ: 0.95 @ Pout >10W
- Armoniche corrente assorbita: secondo EN 61000-3-2.
- Inrush current: 5A 50uS.

USCITA

- Isolamento SELV.
- Morsetteria 1 x 0,5... 1.5 mm².
- Selezione corrente tramite NFC e tool software di programmazione.
- Potenza massima e precisione di corrente @220/240Vac.

8.1W @ 150mA ± 6% (10...54V)
10.8W @ 200mA ± 6% (10...54V)
13.5W @ 250mA ± 6% (10...54V)
16W @ 300mA ± 5% (10...54V)
18W @ 350mA ± 5% (10...54V)
21W @ 400mA ± 5% (10...54V)
24W @ 450mA ± 5% (10...54V)
27W @ 500mA ± 5% (10...54V)
29W @ 550mA ± 5% (10...54V)
32W @ 600mA ± 5% (10...54V)
35W @ 650mA ± 5% (10...54V)
38W @ 700mA ± 5% (10...54V)
38W @ 750mA ± 5% (10...51V)
38W @ 800mA ± 5% (10...48V)
38W @ 850mA ± 5% (10...45V)
38W @ 900mA ± 5% (10...43V)
38W @ 950mA ± 5% (10...40V)
38W @ 1000mA ± 5% (10...38V)
38W @ 1050mA ± 5% (10...36V)

- Potenza massima e precisione di corrente @ 110/127Vac:

8.1W @ 150mA ± 6% (10...54V)
10.8W @ 200mA ± 6% (10...54V)
13.5W @ 250mA ± 6% (10...54V)
15W @ 300mA ± 6% (10...50V)
15W @ 350mA ± 6% (10...43V)
15W @ 400mA ± 6% (10...38V)
15W @ 450mA ± 6% (10...34V)
15W @ 500mA ± 5% (10...30V)
15W @ 550mA ± 5% (10...27.2V)
15W @ 600mA ± 5% (10...25V)
15W @ 650mA ± 5% (10...23V)
15W @ 700mA ± 5% (10...21V)
15W @ 750mA ± 5% (10...20V)
15W @ 800mA ± 5% (10...19V)
15W @ 850mA ± 5% (10...18V)
15W @ 900mA ± 5% (10...17V)
15W @ 950mA ± 5% (10...16V)
15W @ 1000mA ± 5% (10...15V)
15W @ 1050mA ± 5% (10...14.5V)

INPUT

- Nominal AC: 110/127 Vac ^{-10/+10 %} 50/60Hz.
220/240 Vac ^{-10/+10 %} 50/60Hz.
- Range DC: 176/275 Vdc for emergency application according to EN 50171/EN 50172.
- Terminal block for up to 1 x 0.75... 1.5 mm².
- Max Input Current: 0.20A.
- Power factor λ: 0.95 @ Pout >10W.
- Harmonic content of mains current: according to EN 61000-3-2.
- Inrush current: 5A 50uS.

OUTPUT

- SELV insulation on output.
- Terminal block for up to 1 x 0,5... 1.5 mm².
- Current selection through NFC and software programming tool.
- Max output power and current precision @ 220/240Vac.

8.1W @ 150mA ± 6% (10...54V)
10.8W @ 200mA ± 6% (10...54V)
13.5W @ 250mA ± 6% (10...54V)
16W @ 300mA ± 5% (10...54V)
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32W @ 600mA ± 5% (10...54V)
35W @ 650mA ± 5% (10...54V)
38W @ 700mA ± 5% (10...54V)
38W @ 750mA ± 5% (10...51V)
38W @ 800mA ± 5% (10...48V)
38W @ 850mA ± 5% (10...45V)
38W @ 900mA ± 5% (10...43V)
38W @ 950mA ± 5% (10...40V)
38W @ 1000mA ± 5% (10...38V)
38W @ 1050mA ± 5% (10...36V)

- Max output power and current precision @ 110/127Vac.

8.1W @ 150mA ± 6% (10...54V)
10.8W @ 200mA ± 6% (10...54V)
13.5W @ 250mA ± 6% (10...54V)
15W @ 300mA ± 6% (10...50V)
15W @ 350mA ± 6% (10...43V)
15W @ 400mA ± 6% (10...38V)
15W @ 450mA ± 6% (10...34V)
15W @ 500mA ± 5% (10...30V)
15W @ 550mA ± 5% (10...27.2V)
15W @ 600mA ± 5% (10...25V)
15W @ 650mA ± 5% (10...23V)
15W @ 700mA ± 5% (10...21V)
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15W @ 850mA ± 5% (10...18V)
15W @ 900mA ± 5% (10...17V)
15W @ 950mA ± 5% (10...16V)
15W @ 1000mA ± 5% (10...15V)
15W @ 1050mA ± 5% (10...14.5V)

ENTE EMITTENTE: DT Compilato _____ Visto _____

- Tensione in uscita massima: <59 VDC.
- Efficienza massimo carico@700mA > 91%
- Efficienza massimo carico@1050mA : 90%

REGOLAZIONE

- Regolabile con segnale DALI (EN 62386 101/102 ed. 2) PUSH e 1-10V
 - AM DIMMING 1-100% (corrente minima 7mA).
 - Pulsante collegabile su lato primario tra fase e morsetto DA (impedenza 170Kohm).
 - Ripristino del livello di regolazione al ritorno dell'alimentazione (regolazione PUSH-SWITCH).
 - Possibilità di abilitare CORRIDOR function BILEVEL N (BILEVEL P)
 - Segnale 1-10V e potenziometro collegabile sul lato secondario (corrente fornita max 0,35mA).
 - Altre funzionalità programmabili :
- AOC (Corrente di uscita settabile tramite DALI)
- CLO (FLUSSO LUMINOSO DI USCITA COSTANTE a 20 step)
- DC Emergency (funzionamento con tensione dc da batteria con possibilità di impostare livello. Default corrente di uscita 15%)
- 1-10V settings (programmazione livelli 1-10V)

PROTEZIONI

- All'ingresso, contro sovratensioni impulsive di rete (secondo EN 61547) fino a 2KV N-L , 4KV N-GND e 4KV L-GND.
- Protezione al corto circuito e al circuito aperto.
- Protezione al sovraccarico e di temperatura (C.5.a della EN 61347-1).

FILTRO ANTIDISTURBO EMI

- Secondo EN55015.

AMBIENTE

- Temp. ambiente: -25...45 °C.
- tc = 85 °C.
- tc life 50000H = 85°C.

SICUREZZA

- Hi-pot test: 3750V, 100% per 2 sec.

NORMATIVE

- EN 61347-1 ; EN 61347-2-13 ; EN 61547 ;
- EN 55015 ; EN 61000-3-2 ; EN62384
DIN VDE 0710 teil 14.
- EN62386-101 ,EN62386-102 ;EN62386-207,DALI2
- DiiA Extensions DT50, DT51, DT52

- Max output voltage: <59 VDC.
- Efficiency full load@700mA > 91%
- Efficiency full load@1050mA : 90%.

DIMMING

- Dimmable by DALI (EN 62386 101/102 ed. 2) PUSH and 1-10V signal
 - AM DIMMING 1-100% (minimum current 7mA).
 - Terminal block on primary side for push button; connection between phase and DA terminal block (Impedance 170Kohm).
 - Dimming level memory at mains restore (for PUSH-SWITCH dimming).
 - CORRIDOR , BILEVEL N (BILEVEL P)function as option.
 - Terminal block on the secondary side for 1-10V signal or potentiometer (source current 0,35mA).
 - Other programmable functions :
- AOC (Adjustable Output Current)
- CLO (CONSTANT LUMEN OUTPUT 20 step)
- DC Emergency (Operation with battery Vdc with the possibility to set emergency level Default output current 15%).
- 1-10V settings input to output customization to set 10V level)

PROTECTIONS

- Against input overvoltages from mains (according to EN61547). Up to 2KV N-L , 4KV N-GND e 4KV L-GND.
- Against short circuit and open circuit.
- Thermal and overload protection (C.5.a EN 61347-1).

EMI

- According to EN55015

AMBIENT

- Ambient Temp.: -25...45 °C.
- tc = 85 °C.
- tc life 50000H = 85°C.

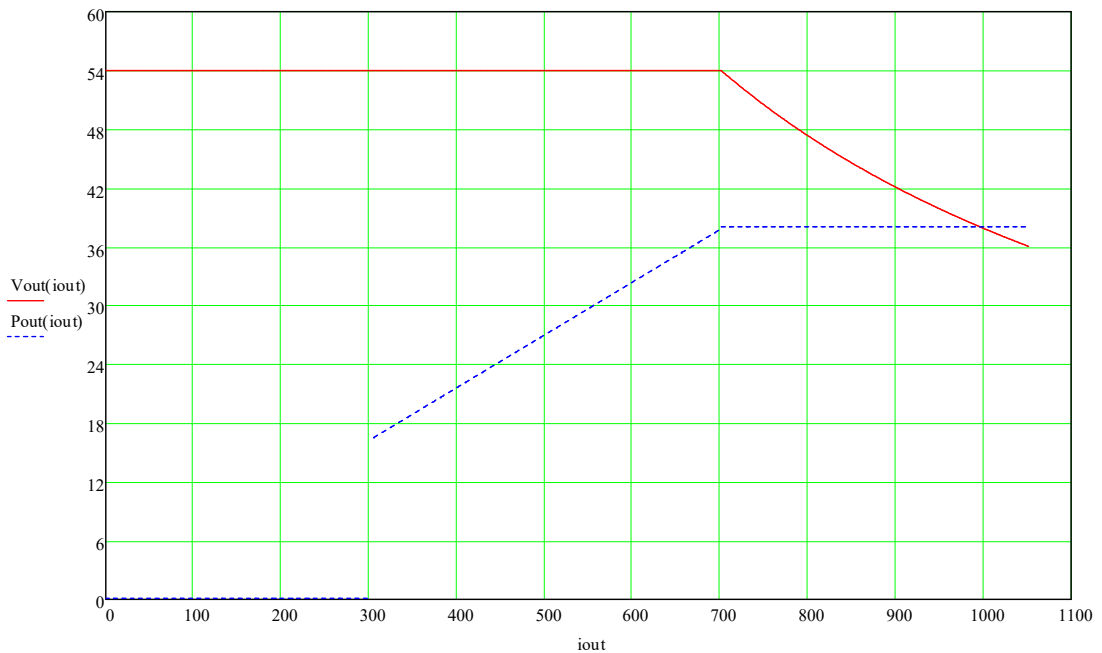
SAFETY

- Hi-pot test: 3750V, 100% for 2 sec.

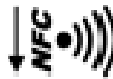
STANDARDS

- EN 61347-1 ; EN 61347-2-13 ; EN 61547 ;
- EN 55015 ; EN 61000-3-2 ; EN62384
DIN VDE 0710 teil 14.
- EN62386-101 ,EN62386-102 ;EN62386-207,DALI2
- DiiA Extensions DT50, DT51, DT52

ENTE EMITTENTE: DT Compilato _____ Visto _____



cod. 151080 **JOLLY 38 DALI NFC**
 Dimmable AC/DC P/S for LED
 LED控制装置 te



MADE IN ITALY
 via Parma 14, 21047 Saronno(VA) • Italy, www.tci.it *13/22



PRI: 110~127V~ 50/60Hz $\lambda = 0,98$ $I_{max} = 0,18A$
 220-240V~ 50/60Hz $\lambda = 0,95$ $I_{max} = 0,20A$

SEC: 38Wmax (15W 110V~); 150-1050mA(C.C.) (Uout=59V---)
 ta= -25...45°C; tc= 85°C

176-275V --- range for emerg. appl. 用于应急照明; $I_{max} = 0,24A$

AM DIMMING AM调光
 DIMMING: DALI / PushSwitch
 ADIM port for at least 2 sec to reset

Designed to work with DALI-2 system

FW 108S+218+145
 SELV

PRI, DALI: 0,75-1,5 □
 SEC, ADIM: 0,2-1,5 □

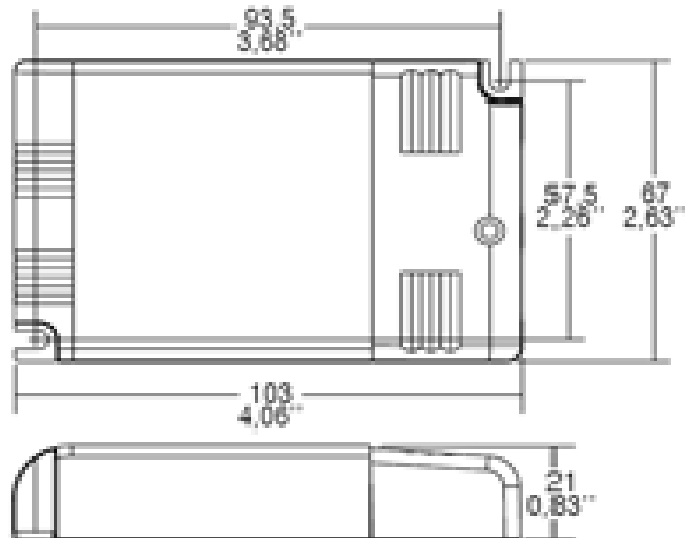
8,5 - 9,5mm

DA1 □
 DA2 □

PRI □
 L □
 N □

DIA2: basic insulation to PRI circuit 对输入线路符合基本绝缘
 DIA1: supplementary insulation to SELV circuit 对SELV线路符合附加绝缘

ENTE EMITTENTE: DT Compilato _____ Visto _____



Download NFC programmer from: https://www.allix-download.cloud/NFC_Reader/NFC_Reader.htm

REGOLAZIONE PUSH-SWITCH

Regolazione della luminosità 0/1 - 100 % mediante la funzione PUSH SWITCH (tensione di rete):

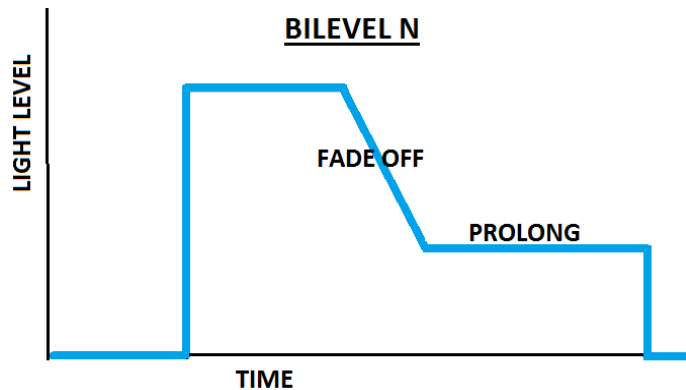
- una pressione breve per accendere e spegnere;
- una pressione prolungata per aumentare o diminuire l'intensità luminosa;
- la regolazione si ferma automaticamente ai valori minimi e massimi;
- per un nuovo comando accensione, regolazione o spegnimento, rilasciare il pulsante e dare nuovamente il comando desiderato;
- ripristino del livello di dimming al ritorno alimentazione;
- tenendo abilitato lo SWITCH per almeno 10 secondi è possibile portare al 30% il livello di regolazione;
- tenendo abilitato lo SWITCH per almeno 60 secondi è possibile abilitare la funzione **BILEVEL N**:
- tenere premuto per mantenere il 100%;
- al rilascio il FADE OFF è di 30 secondi, con livello 10%;
- il tempo di PROLONG è 30 minuti, poi OFF.

PUSH-SWITCH DIMMING

Light regulation 0/1 - 100 % by means of PUSH SWITCH function (mains voltage):

- a short push to turn on and off;
- a longer push to increase or decrease light intensity;
- regulation automatically stops at minimum and maximum values;
- for another on, regulation or off command, release the push button and give the desired command again;
- dimming level memory at mains restore;
- keep enabled the SWITCH for at least 10 seconds to reset the dimming level to 30%;
- keep enabled the SWITCH for at least 60 seconds to enable **BILEVEL N** function:
- keep pressed for 100% level;
- FADE OFF time is 30 seconds, light level 10%;
- PROLONG time is 30 minutes, then OFF.

ENTE EMITTENTE: _____ Compilato: _____ Visto: _____



REGOLAZIONE 1-10V / 1-10V DIMMING

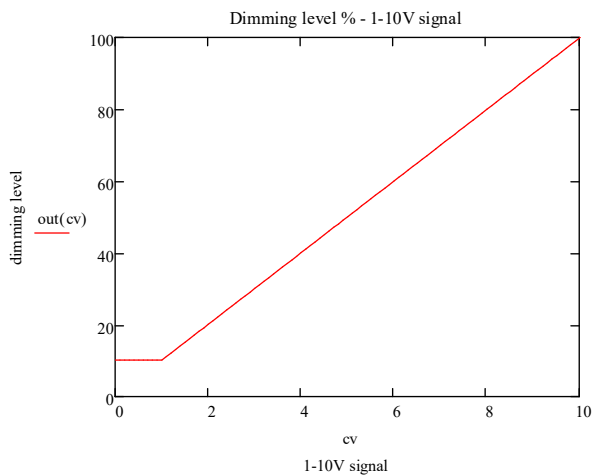
DC JOLLY, quando utilizzato in modalità 1-10V, può essere configurato con una dei tre tipi di regolazione disponibili: lineare, lineare soft e logaritmico. La curva regolazione logaritmica può essere poi ulteriormente configurata utilizzando un intero che determina la pendenza della curva logaritmica.

DC JOLLY, when used in 1-10V dimming, can be configured to one of three base dimming curves: linear, linear soft start or logarithmic. The logarithmic dimming curve can be further configured by selecting an integer from 1 to 7 that is used as a factor in determining the slope of the logarithmic dimming curve.

La curva lineare fornisce una pendenza costante tra corrente minima alla minima tensione del segnale di controllo e la corrente massima alla massima tensione del segnale di controllo.

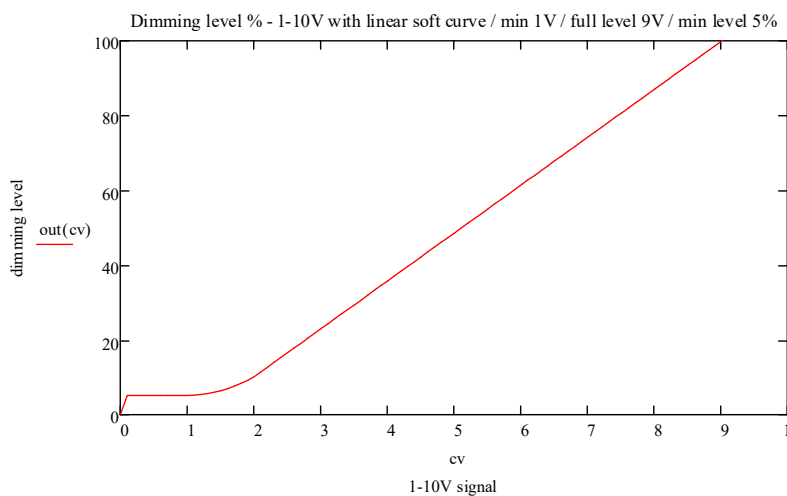
Linear Curve: provides a linear slope from the maximum output current at the full bright control voltage to the minimum dim current at the minimum dim control voltage.

ENTE EMITTENTE: _____ Compilato: _____ Visto: _____



La curva lineare soft fornisce una rampa dolce per il primo volt di regolazione sopra la minima tensione del segnale di controllo; di seguito la curva è lineare fino alla corrente massima alla massima tensione di controllo.

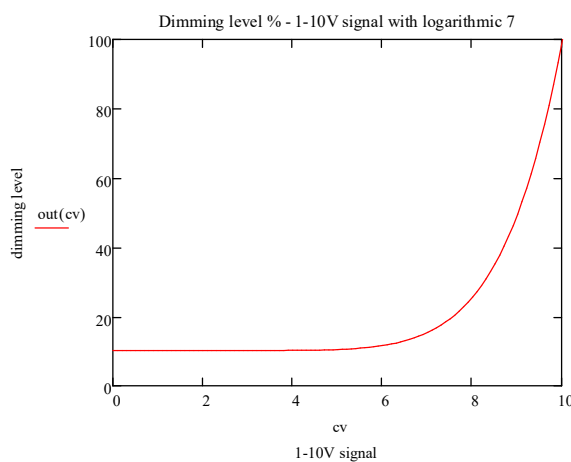
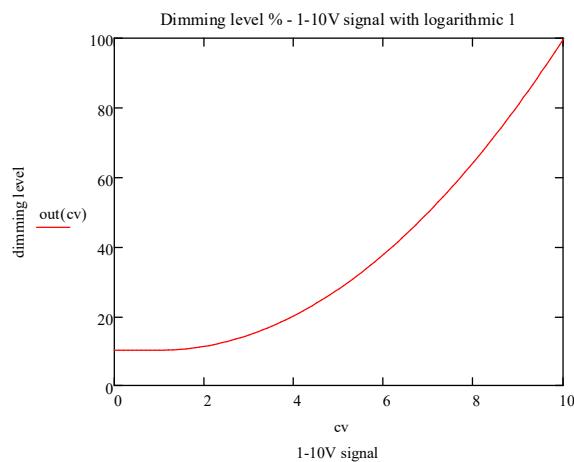
Linear Soft Start Curve: provides a slow ramp up over the first 1.0V above the minimum dim control voltage, after which it is a linear curve up to the maximum output current at the full bright control voltage.



La curva logaritmica fornisce una regolazione più dolce o più ripida a seconda del fattore esponenziale utilizzato da 1 a 7. Un fattore alto permette un maggior controllo alle minime correnti e un controllo meno preciso alle alte.

Logarithmic Curve: provides a logarithmic dimming curve based on the factor selected. A factor of 1 provides for a gentle slope from the minimum dim control voltage to the maximum control voltage. Increased factor values provide for a steeper curve, which allows for more precise control of the driver output near the minimum dimming current and less precise control near the maximum output current.

ENTE EMITTENTE: _____ Compilato: _____ Visto: _____



Tensione di controllo / Control Voltages

La curva selezionata può essere ulteriormente customizzata configurando la tensione di massima e minima regolazione e la tensione di controllo che porta allo spegnimento il prodotto.

La tensione massima di controllo è la tensione sulla porta di controllo che permette di raggiungere la massima corrente programmata. Questa tensione di controllo può essere variata tra 7 e 9V con step di 0.1V.

La tensione minima di controllo è la tensione minima sulla porta di controllo che permette di raggiungere la corrente minima programmata. Questa può essere impostata tra 1V e 3V con step di 0.1V. Di seguito alcuni esempi di curve di controllo.

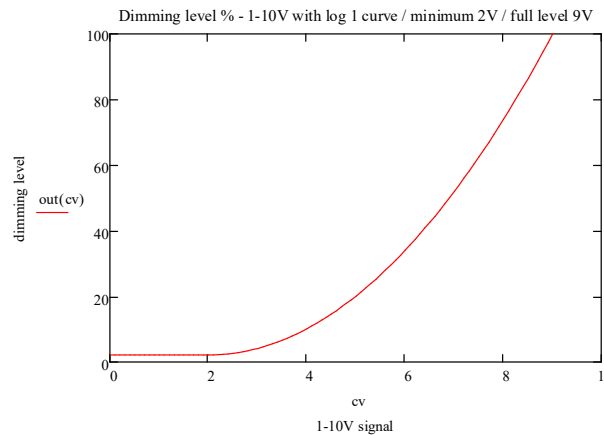
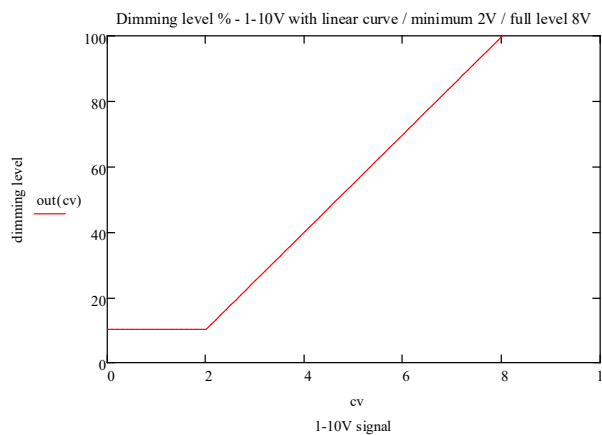
The selected dimming curves can be further customized by configuring the full bright control voltage, minimum dim control voltage and the dim-to-off control voltage.

Full Bright Control Voltage: this is the control voltage level that is required for the driver to reach the maximum programmed output current. This control voltage can be set from 7.0Vdc to 9.0Vdc in 0.1Vdc increments.

Minimum Dim Control Voltage: this is the control voltage level that is required for the driver to reach the programmed minimum dim current. This control voltage can be set from 1.0Vdc to 3.0Vdc in 0.1Vdc increments.

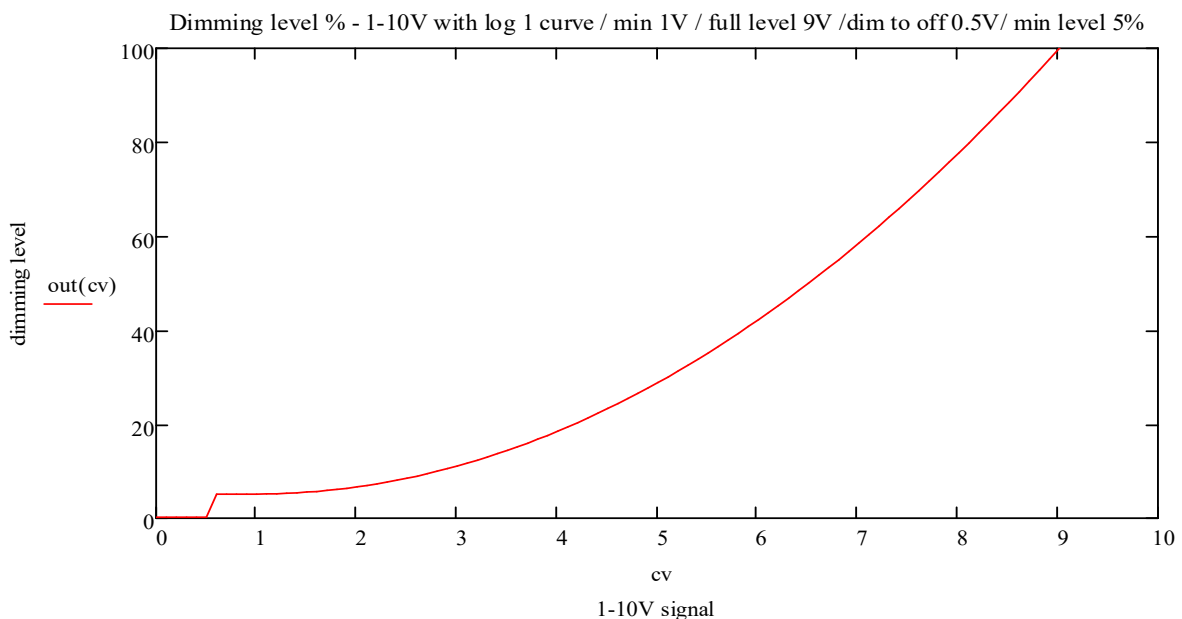
Below some examples of curves with different minimum and full bright dimming control.

ENTE EMITTENTE: _____ Compilato: _____ Visto: _____



Dim-to-off control Voltage: questa è la tensione di controllo alla quale il driver azzerava la corrente di uscita (stand by mode). Questo livello può essere settato da 0.1Vdc a 1.7Vdc con step di incremento di 0.1V. Un valore di 0 disabilita la funzionalità non mandando mai in stand-by il driver. La funzionalità ha 0.2V di isteresi. Sebbene sia sufficiente che la tensione di dim-to-off sia impostata almeno 0.2V più in basso della tensione di controllo di minimo dimming, si raccomanda di impostare almeno 0.5V.

Dim-to-Off Control Voltage: this is the control voltage level that is required for the driver to reduce the output current to 0mA while line voltage is still present to the driver. This is commonly referred to as standby mode. This control voltage can be set from 0.1Vdc to 1.7Vdc in 0.1Vdc increments when dim-to-off is enabled. A value of 0Vdc disables the dim-to-off functionality and the driver will not go into the standby mode. The dim-to-off functionality has 0.2Vdc of hysteresis designed in, so the driver requires a control signal of 0.2Vdc greater than the programmed dim-to-off control voltage to transition from standby mode to the minimum dim current. While the dim-to-off control voltage must be set at least 0.2Vdc less than the minimum dim control voltage, it is recommended to have 0.5Vdc between the dim-to-off and minimum dim control voltages.



ENTE EMITTENTE: _____ Compilato: _____ Visto: _____

DALI Interface – supported commands

Com-	Command Name	Implemented / Reaction
–	DIRECT ARC POWER CONTROL	yes
0	OFF	yes
1	UP	yes
2	DOWN	yes
3	STEP UP	yes
4	STEP DOWN	yes
5	RECALL MAX LEVEL	yes
6	RECALL MIN LEVEL	yes
7	STEP DOWN AND OFF	yes
8	ON AND STEP UP	yes
9	ENABLE DAPC SEQUENCE	yes
10	GO TO LAST ACTIVE LEVEL	yes
16 – 31	GOTO SCENE	yes
32	RESET	yes
33	STORE ACTUAL LEVEL IN THE DTR	yes
34	SAVE PERSISTENT VARIABLES	yes
35	SET OPERATING MODE	yes
36	RESET MEMORY BANK	yes
37	IDENTIFY DEVICE	yes
42	STORE THE DTR AS MAX LEVEL	yes
43	STORE THE DTR AS MIN LEVEL	yes
44	STORE THE DTR AS SYSTEM FAILURE LEVEL	yes
45	STORE THE DTR AS POWER ON LEVEL	yes
46	STORE THE DTR AS FADE TIME	yes
47	STORE THE DTR AS FADE RATE	yes
48	SET EXTENDED FADE TIME	yes
64 – 79	STORE THE DTR AS SCENE	yes
80 – 95	REMOVE FROM SCENE	yes
96 – 111	ADD TO GROUP	yes
112 – 127	REMOVE FROM GROUP	yes
128	STORE DTR AS SHORT ADDRESS	yes
129	ENABLE WRITE MEMORY	yes
144	QUERY STATUS	yes
145	QUERY CONTROL GEAR	yes
146	QUERY LAMP FAILURE	yes
147	QUERY LAMP POWER ON	yes

ENTE EMITTENTE: _____ Compilato: _____ Visto: _____

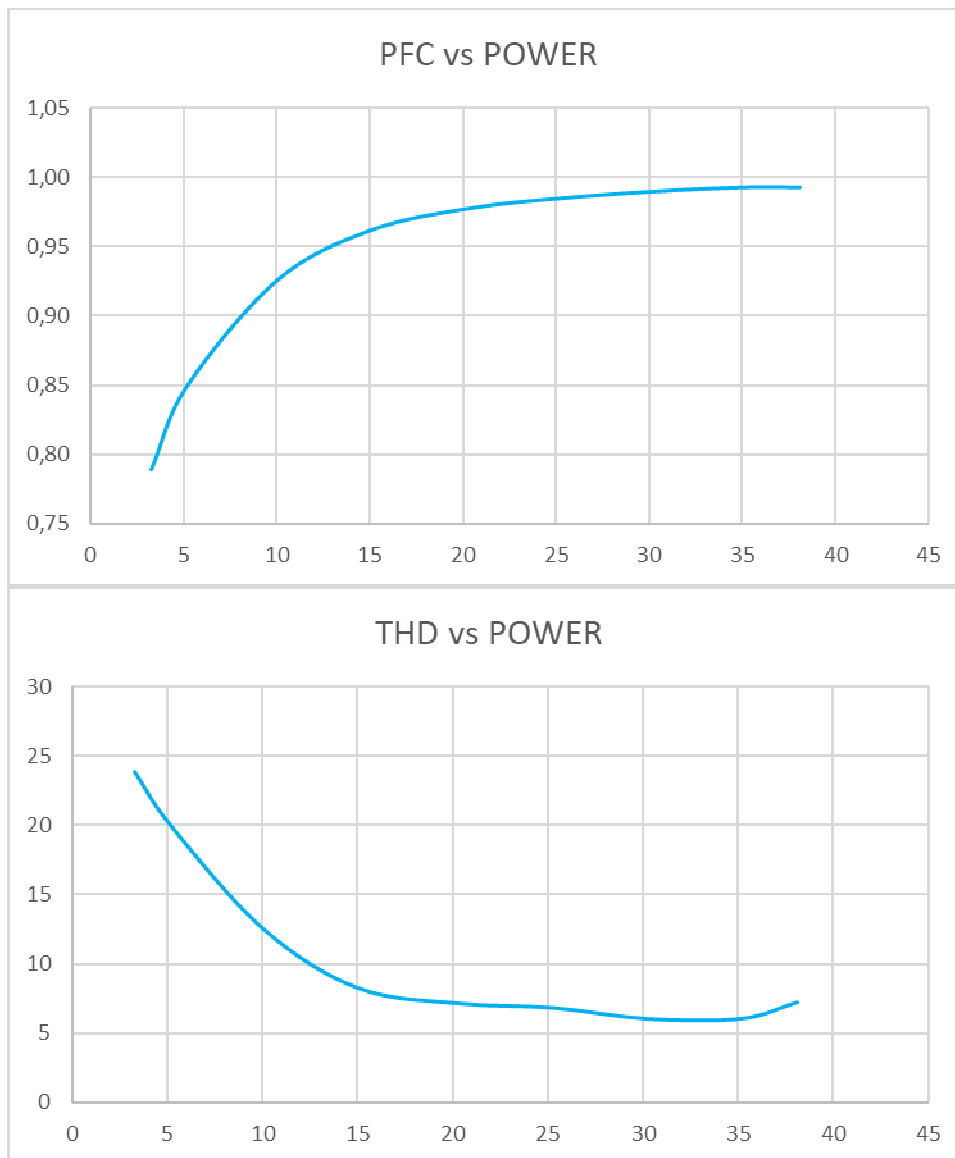
Com-	Command Name	Implemented / Reaction
148	QUERY LIMIT ERROR	yes
149	QUERY RESET STATE	yes
150	QUERY MISSING SHORT ADDRESS	yes
151	QUERY VERSION NUMBER	yes
152	QUERY CONTENT DTR	yes
153	QUERY DEVICE TYPE	yes
154	QUERY PHYSICAL MINIMUM LEVEL	yes
155	QUERY POWER FAILURE	yes
156	QUERY CONTENT DTR1	yes
157	QUERY CONTENT DTR2	yes
158	QUERY OPERATING MODE	yes
159	QUERY LIGHT SOURCE TYPE	yes
160	QUERY ACTUAL LEVEL	yes
161	QUERY MAX LEVEL	yes
162	QUERY MIN LEVEL	yes
163	QUERY POWER ON LEVEL	yes
164	QUERY SYSTEM FAILURE LEVEL	yes
165	QUERY FADE TIME/FADE RATE	yes
166	QUERY MANUFACTURER SPECIFIC MODE	yes
167	QUERY NEXT DEVICE TYPE	yes
168	QUERY EXTENDED FADE TIME	yes
170	QUERY CONTROL GEAR FAILURE	yes
176 – 191	QUERY SCENE LEVEL (SCENES 0-15)	yes
192	QUERY GROUPS 0-7	yes
193	QUERY GROUPS 8-15	yes
194	QUERY RANDOM ADDRESS (H)	yes
195	QUERY RANDOM ADDRESS (M)	yes
196	QUERY RANDOM ADDRESS (L)	yes
197	READ MEMORY LOCATION	yes
224	REFERENCE SYSTEM POWER	No
225	ENABLE CURRENT PROTECTOR	No
226	DISABLE CURRENT PROTECTOR	No
227	SELECT DIMMING CURVE	yes
228	STORE DTR AS FAST FADE TIME	yes
229	---	NA
230	---	NA
231	---	NA
232	---	NA
233	---	NA
234	---	NA

ENTE EMITTENTE: _____ Compilato: _____ Visto: _____

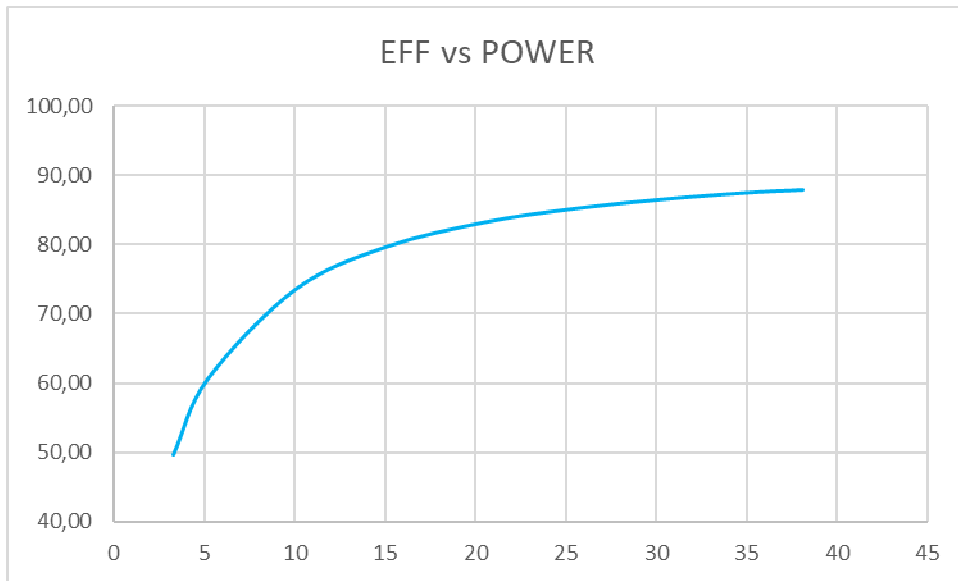
Com-	Command Name	Implemented / Reaction
235	---	NA
236	---	NA
237	QUERY GEAR TYPE	yes
238	QUERY DIMMING CURVE	yes
239	QUERY POSSIBLE OPERATING MODES	yes
240	QUERY FEATURES	yes
241	QUERY FAILURE STATUS	yes
242	QUERY SHORT CIRCUIT	yes
243	QUERY OPEN CIRCUIT	yes
244	QUERY LOAD DECREASE	no
245	QUERY LOAD INCREASE	no
246	QUERY CURRENT PROTECTOR ACTIVE	no
247	QUERY THERMAL SHUT DOWN	yes
248	QUERY THERMAL OVERLOAD	yes
249	QUERY REFERENCE RUNNING	no
250	QUERY REFERENCE MEASUREMENT FAILED	no
251	QUERY CURRENT PROTECTOR ENABLED	no
252	QUERY OPERATING MODE	yes
253	QUERY FAST FADE TIME	yes
254	QUERY MIN FAST FADE TIME	yes
255	QUERY EXTENDED VERSION NUMBER	yes
256	TERMINATE	yes
257	DATA TRANSFER REGISTER (DTR)	yes
258	INITIALISE	yes
259	RANDOMISE	yes
260	COMPARE	yes
261	WITHDRAW	yes
262	PING	yes
264	SEARCHADDRH	yes
265	SEARCHADDRM	yes
266	SEARCHADDRL	yes
267	PROGRAM SHORT ADDRESS	yes
268	VERIFY SHORT ADDRESS	yes
269	QUERY SHORT ADDRESS	yes
270	PHYSICAL SELECTION	Not implemented
272	ENABLE DEVICE TYPE 6	yes
273	DATA TRANSFER REGISTER 1(DTR1)	yes
274	DATA TRANSFER REGISTER 2(DTR2)	yes
275	WRITE MEMORY LOCATION	yes
276	WRITE MEMORY LOCATION NO REPLY	yes

ENTE EMITTENTE: _____ Compilato: _____ Visto: _____

*PS In assenza del segnale DALI l'alimentatore eroga la massima potenza.
 The power supplier is at maximum power with DALI signal missing*



ENTE EMITTENTE: _____ Compilato: _____ Visto: _____



ENTE EMITTENTE: _____ Compilato: _____ Visto: _____