

Technical notes

Mono channel Dimmers with Output Tension PWM.

Input Range: 48Vdc

Output Tension PWM 48Vdc with current from 0A to 2.5A (120W).

Input Controls: DALI

Output Sync: PWM x1.

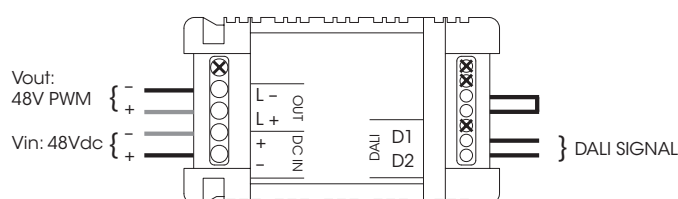
Standard Dimension 40x80x24.45 mm.

Reverse polarity protection.

Open circuit protection.

Surge voltage protection.

Over temperature protection.

DALI MODE

In order to activate the DALI control/operation mode it is necessary to leave the D+ and D- inputs shorted and connect the DALI bus between DALI inputs the (DALI/P1 and DALI/P2).

Upon receipt of the first properly formatted DALI packet, the device is configured to operate in this mode. Once configured in DALI mode and disconnected from the DALI bus the dimmer switches to the POWER ON LEVEL mode set through DALI bus. The maximum current absorbed by the DALI bus is about 2mA.

Below you can find the implemented standard commands:

DIRECT ARC POWER

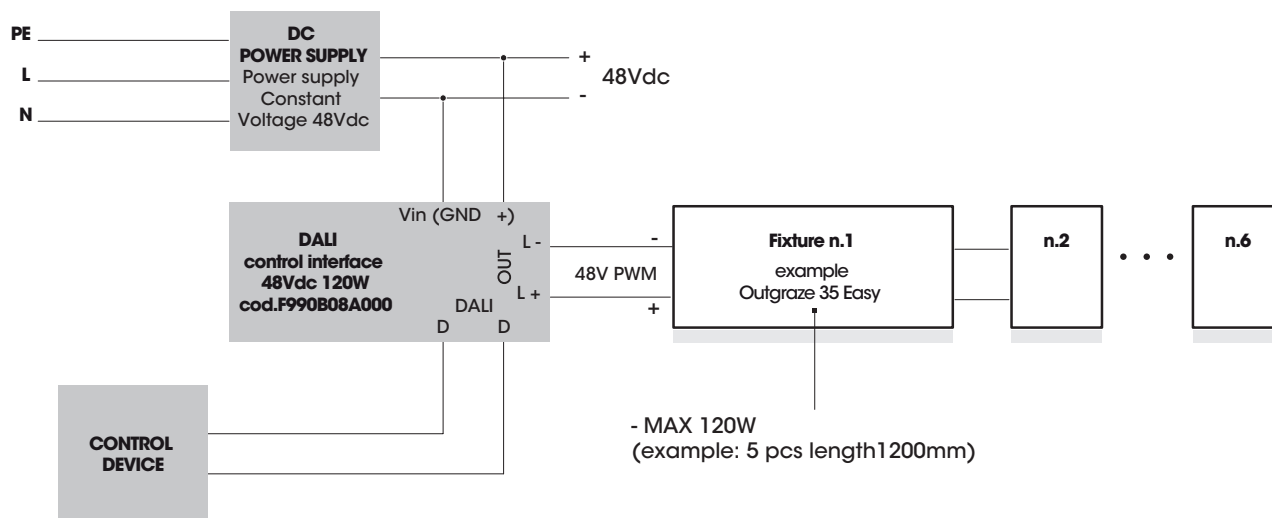
OFF
UP
DOWN
STEP UP
STEP DOWN
RECALL MAX LEVEL
RECALL MIN LEVEL
STEP DOWN AND OFF
ON AND STEP UP
GO TO SCENE (0-15)
RESET
STORE ACTUAL LEVEL IN THE DTR
STORE THE DTR AS MAX LEVEL
STORE THE DTR AS MIN LEVEL
STORE THE DTR AS SYSTEM FAILURE LEVEL
STORE THE DTR AS POWER ON LEVEL
STORE THE DTR AS FADE TIME
STORE THE DTR AS FADE RATE
STORE THE DTR AS SCENE (0-15)
REMOVE FROM SCENE (0-15)

ADD TO GROUP (0-15)

REMOVE FROM GROUP (0-15)
STORE DTR AS SHORT ADDRESS
QUERY STATUS
QUERY BALLAST
QUERY LAMP POWER ON
QUERY LIMIT ERROR
QUERY RESET STATE
QUERY MISSING SHORT ADDRESS
QUERY VERSION NUMBER
QUERY DEVICE TYPE
QUERY PHYSICAL MINIMUM LEVEL
QUERY POWER FAILURE
QUERY CONTENT DTR1
QUERY CONTENT DTR2
QUERY ACTUAL LEVEL
QUERY MAX LEVEL
QUERY MIN LEVEL
QUERY POWER ON LEVEL
QUERY SYSTEM FAILURE LEVEL
QUERY FADE TIME/FADE RATE

QUERY SCENE LEVEL (0-15)

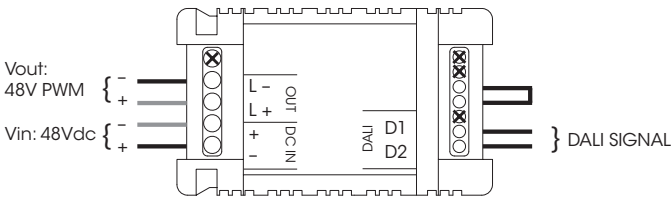
QUERY GROUPS (0-7)
QUERY GROUPS (8-15)
QUERY RANDOM ADDRESS H
QUERY RANDOM ADDRESS M
QUERY RANDOM ADDRESS L



Caratteristiche tecniche

- Dimmer Mono canale con Uscita in Tensione PWM.
- Range di alimentazione: 48Vdc
- Uscita in Tensione PWM 48Vdc con corrente da 0A a 2.5A (120W).
- Ingressi di Controllo: DALI
- Uscite di sincronia: PWM x1.
- Dimensioni Standard 40x80x24.45 mm.
- Protezione da inversione di polarità.
- Protezione circuito aperto.
- Protezione da picchi tensione.
- Protezione da sovratemperatura.

DALI MODE



Al fine di attivare la modalità DALI di controllo/funzionamento è necessario lasciare cortocircuitati gli ingressi D+ e D- e connettere tra gli ingressi DALI (DALI/P1 e DALI/P2) il bus DALI.

Alla ricezione del primo pacchetto DALI formattato correttamente il dispositivo si configura per il funzionamento in tale modalità.

Una volta configurato in modalità DALI, e disconnesso dal bus DALI il dimmer passa allo stato POWER ON LEVEL impostato tramite bus DALI. La corrente max assorbita dal bus DALI è di circa 2mA.

Qui di seguito i comandi standard implementati:

DIRECT ARC POWER	ADD TO GROUP (0-15)	QUERY SCENE LEVEL (0-15)
OFF	REMOVE FROM GROUP (0-15)	QUERY GROUPS (0-7)
UP	STORE DTR AS SHORT ADDRESS	QUERY GROUPS (8-15)
DOWN	QUERY STATUS	QUERY RANDOM ADDRESS H
STEP UP	QUERY BALLAST	QUERY RANDOM ADDRESS M
STEP DOWN	QUERY LAMP POWER ON	QUERY RANDOM ADDRESS L
RECALL MAX LEVEL	QUERY LIMIT ERROR	
RECALL MIN LEVEL	QUERY RESET STATE	
STEP DOWN AND OFF	QUERY MISSING SHORT ADDRESS	
ON AND STEP UP	QUERY VERSION NUMBER	
GO TO SCENE (0-15)	QUERY DEVICE TYPE	
RESET	QUERY PHYSICAL MINIMUM LEVEL	
STORE ACTUAL LEVEL IN THE DTR	QUERY POWER FAILURE	
STORE THE DTR AS MAX LEVEL	QUERY CONTENT DTR1	
STORE THE DTR AS MIN LEVEL	QUERY CONTENT DTR2	
STORE THE DTR AS SYSTEM FAILURE LEVEL	QUERY ACTUAL LEVEL	
STORE THE DTR AS POWER ON LEVEL	QUERY MAX LEVEL	
STORE THE DTR AS FADE TIME	QUERY MIN LEVEL	
STORE THE DTR AS FADE RATE	QUERY POWER ON LEVEL	
STORE THE DTR AS SCENE (0-15)	QUERY SYSTEM FAILURE LEVEL	
REMOVE FROM SCENE (0-15)	QUERY FADE TIME/FADE RATE	

