

## A9950051 LINEARdrive 720D

### Technical specifications:

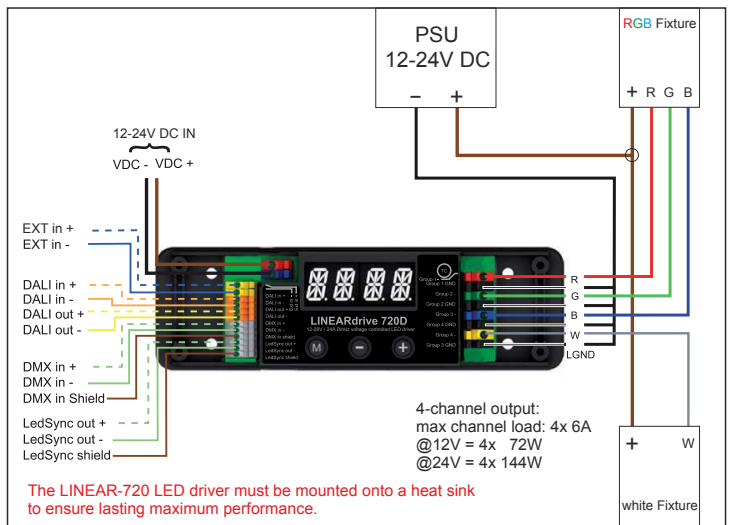
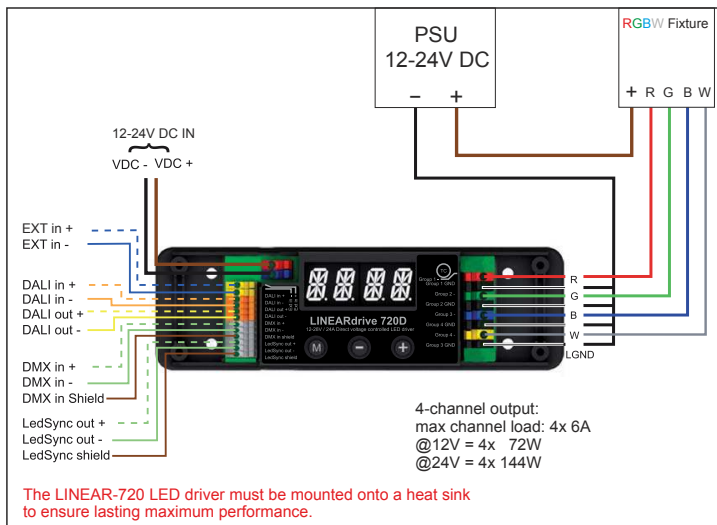
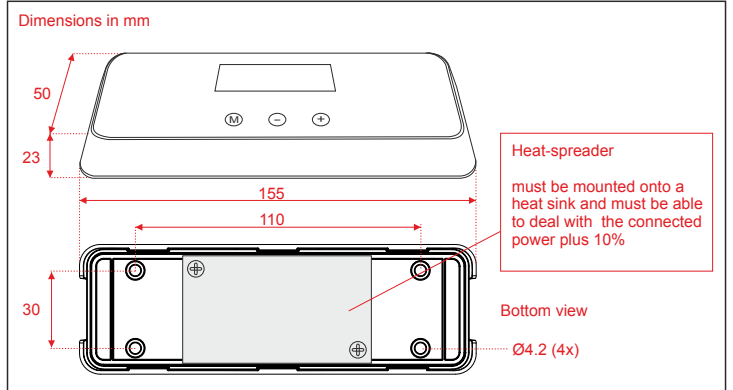
Current: 24A (6A/channel)  
 Power output: 720 Watt (must be mounted onto a heat sink !)  
 Operating supply: 12V-24V DC  
 Environmental rat.: Ta range: -20°C to +50°C (-4°F to +122°F)  
 Tc max. 65°C (149°F)  
 T heatsink max: 60°C (140°F)  
 Cooling: Passive (integrated heat spreader)  
 Relative humidity: non condensing  
 Network input: USITT DMX-512, LedSync, Dali  
 Network output: USITT DMX-512, LedSync, Dali  
 Network resolution: 8 bit (4 Network channels used by driver) or 16 bit (8 Network channels used by driver)  
 Certifications: CE: IEC 61347, EN 55015, IEC61003, EN 61547



<b>KG</b> 0.13	<b>Operat. Power</b> 12-24V DC	<b>Class</b> Class III	<b>IP-20</b>	<b>Dimensions</b> L 152 mm W 50 mm H 23 mm
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### Mode Settings:Color (stand-alone with speed and intensity), Show (9-20 sequences), DMX & Dali

- DMX control mode:
- a. 1-1L 1-DMX-channels for LED group 1) (group 2+3+4 are disabled)
  - b. 2-2L 2-DMX-channels for LEDgroup 1+2) (group 3+4 are disabled)
  - c. 3-3L 3-DMX-channels for LED group 1+2+3) (group 4 is disabled)
  - d. 4-4L 1-DMX-channels for LED group 1+2+3+4)
  - e. 2-4L 2-DMX-channels for 2 LED groups 1+2 & 3+4)
  - f. 1-4L 1-DMX-channels (4 groups 1+2+3+4)
  - g. RGB 3-DMX-channels for 3 LED groups (Red & Green & Blue)
  - h. RGBW 4-DMX-channels for 4 LED groups (Red & Green & Blue & White)
  - i. RGBA 4-DMX-channels for 4 LED groups (Red & Green & Blue & Amber)
  - j. RRGB 3-DMX-channels for 4 LED groups (2x Red & Green & Blue)
  - k. RGGW 3-DMX-channels for 4 LED groups (1x Red & 2x Green & 1xBlue)
  - l. CCWW 2-DMX-channels for 4 LED groups (2x same color & 2x White)
  - m. CWWW 2-DMX-channels for 4 LED groups (1-group & 3-groups)
- Ext input mode:
- 1. POTM: 0-10V (turn off or dim the light)
  - 2. SWITT: Show sequence



### Heat sink

The LINEAR-720 LED driver is designed to operate in ambient temperatures (Ta) ranging from -20° Celsius to +50° Celsius, and need to be mounted onto a heat sink to ensure lasting maximum performance. The driver's maximum Tc is +65° Celsius.

Use the following rule of thumb to calculate the heat sink's minimum required dissipating capacity:  
 $Ch = \Delta T / P$  (°C / Watt) Ch = capacity of the heat sink (°C / watt)  
 $\Delta T$  = temperature difference between heat sink and ambient temperature (°C)  
 P = dissipated power (watt)

Typically, an LED driver dissipates 10% of the output power to the LED load.. For example, if the connected LED load is 15 watt, the ambient temperature is 25 °C and the required maximum temperature of the heat sink is 55 °C, then a heat sink is needed with a minimum dissipating capacity of 20 °C per watt. When selecting a heat sink, make sure the heat sink's mounting surface is at least as large as the LED driver.

When mounting the driver onto a heat sink: - It is preferable to have the heat sink grounded to earth. - Ensure that the airflow is sufficient to cool the heat sink. - Use metal or plastic M4 (UNC 6-32) screws to mount the drivers.

# Colour is our nature



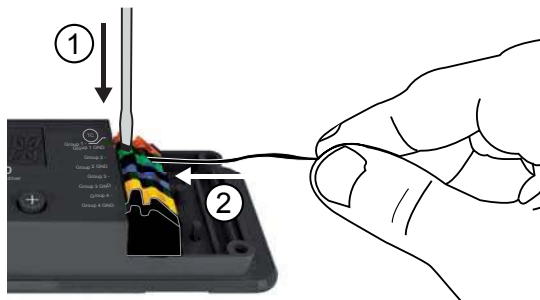
### Connecting and configuring the LINEARdrive 720



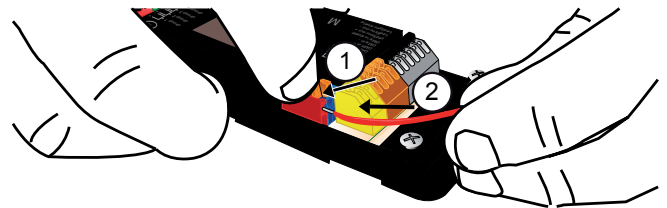
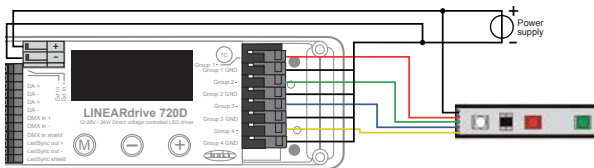
A Removing the cover



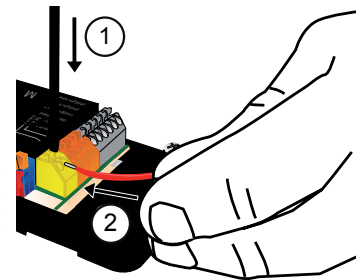
B Removing the strain reliefs



C Connecting LED wires



D Connecting power supply wires



E Optional: Connecting external control device or network cabling



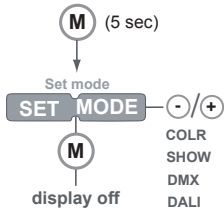
F Fastening the strain reliefs



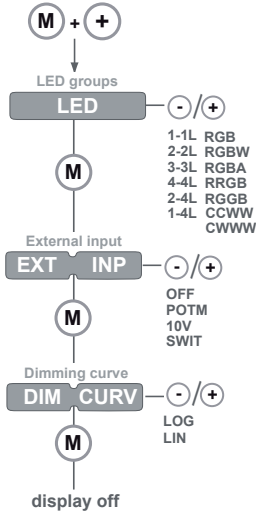
G Configuring the LINEARdrive

Manual configuration

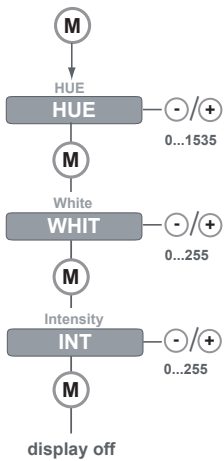
1. Select mode of operation:



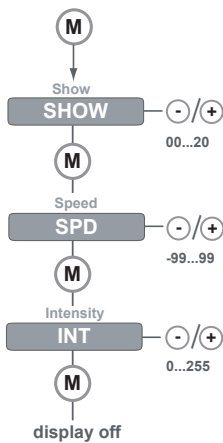
2. Set LED groups:



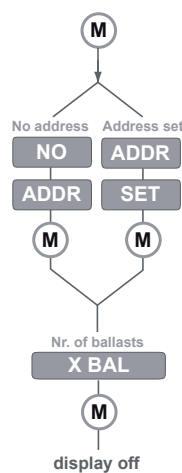
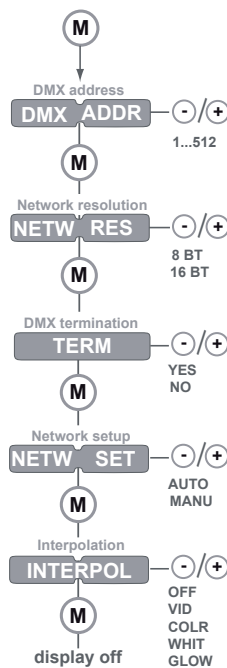
3. Standalone operation - Colour\*-



Standalone operation - Show -



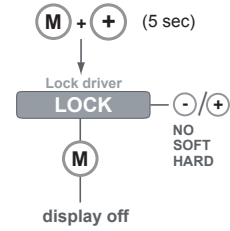
Networked operation - DMX or DALI -



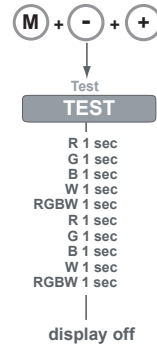
\* The colour menu depends on the LED group settings you have selected in step 2.

Other features

Locking the configuration



Visual test run



Reset to factory defaults

