DA-SL-AP series

DALI addresser, Programmable

Overview

The DA-SL-AP series are a range of DALI addressers that can be setup using the UNLCDHS programming handset and the DM-ADP-PRG programming adaptor. An addresser takes in a message from an addressable DALI system and translates it into a broadcast message so that the luminaire ballast(s) does not have to be addressed using a PC or other methods.
These addressers can be used in DALI control system and have the following standard features.

- Simple means of addressing a DALI group and DALI short address using the UNLCDHS and other parameters (see page 3).
- No power needed to addresser whilst setting the addresses.

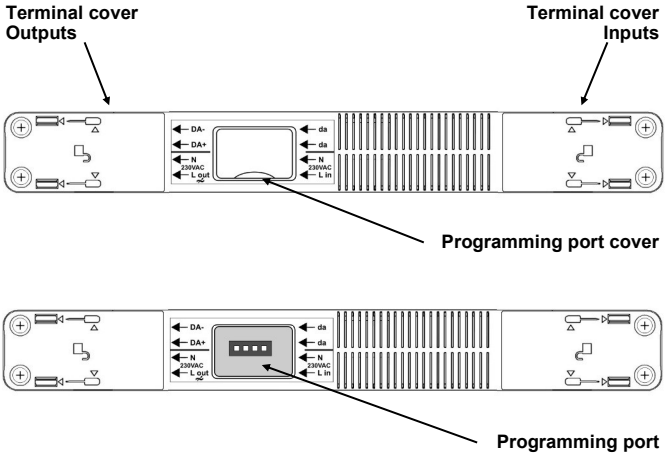
Available with the following options.

- Digital output version that can drive DALI or DSI ballasts.
- Relay option for supplying switched mains to loads.
- 1-10V version for analogue ballasts.

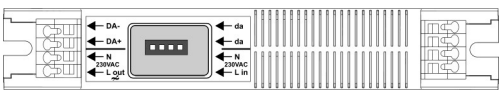
Two termination versions are available. The stand alone version is designed for is suitable for mounting remotely using screw terminals. The -SP version is designed for fitting inside a luminaire using spring connectors.

Features

-Standalone version



-SP Spring terminal version



DM-ADP-PRG

Addressers
Terminal covers
Covers for input and output terminals that also act as cable clamps with the supplied screws.

Programming port cover
Protective cover for the programming port.

Programming port
Use the UNLCDHS for the following functions:

- Set the addresser's Group Address for DALI systems.
- Set the addresser's Short Address for DALI systems.
- Switch between DALI or DSI output (DA-SL-APD and DA-SL-APDR versions only).

See page 3 for details

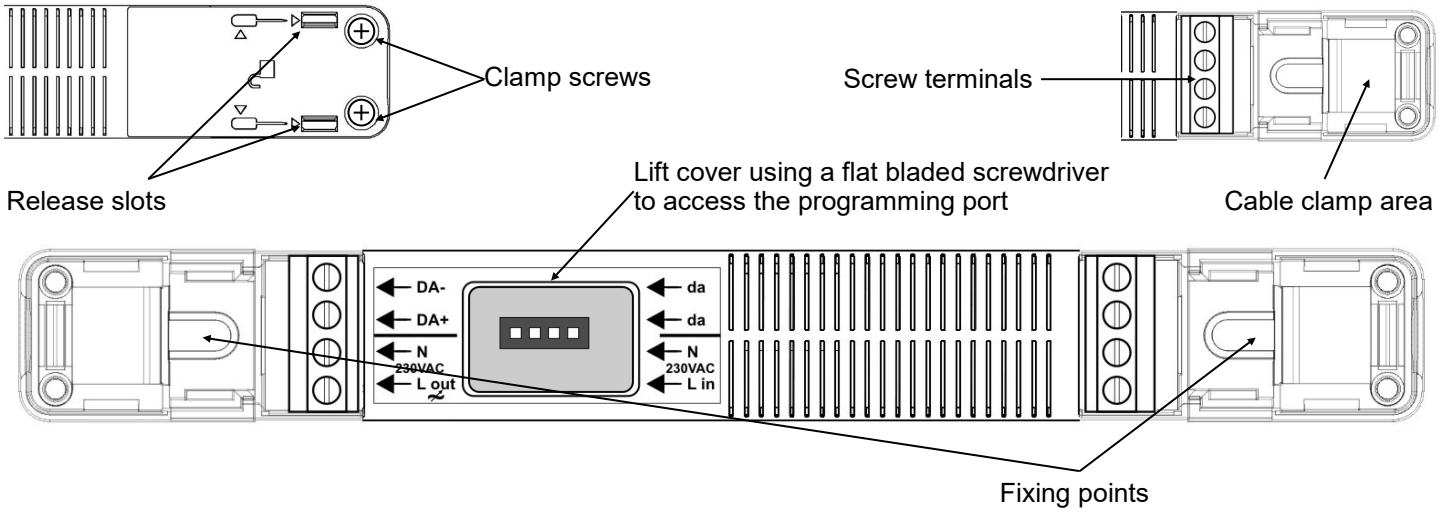
DM-ADP-PRG
Activity LED
Flashes when a parameter is sent to an Addresser or read back to the UNLCDHS.
Note: the USB connection is only suitable for use with the UNLCDHS. Do not plug into a PC USB port.

Installation

Standalone versions

Mount and wire the unit in the following method.

- Remove terminal covers by unscrewing the clamp screws and inserting a small flat-bladed screwdriver into the slots shown in the diagram below.
- Affix the addresser using the fixing slots shown in the diagram below . The fixing slots are suitable for M4 screws.
- Wire unit using the screw terminals. The screw terminals are suitable for solid core or stranded cable up to 2.5mm^2. Maximum cable OD 10mm.
- Ensure that the main cable sheathing is over the cable clamp area.
- Clip on the terminal covers.
- Insert the clamp screws and screw up until the cable is firmly clamped.

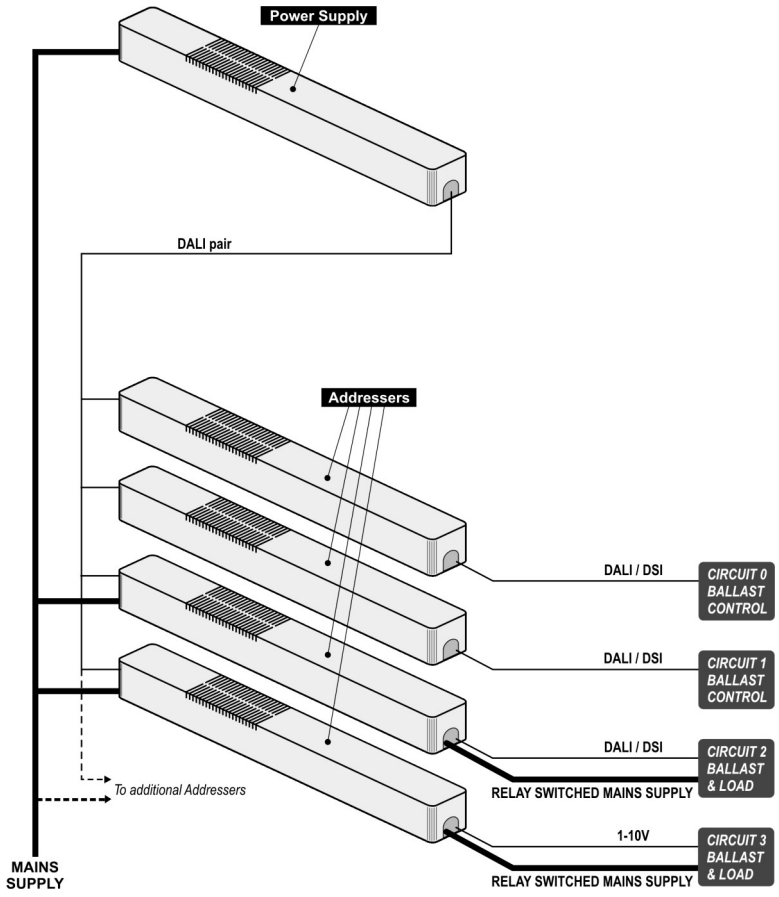


-SP versions

Mount and wire the unit in the following method.

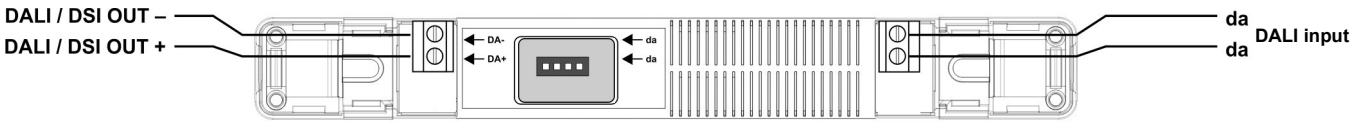
- Affix the addresser to the inside of a luminaire using M4 screws as shown via the fixing points above.
- Use a flat-bladed screwdriver to depress the spring actuators. Insert cable when the actuator is fully depressed. Release of the sprung actuator clamps the conductor. The sprung terminals are only suitable for solid core cable up to 1.5mm^2.

DALI system wiring example

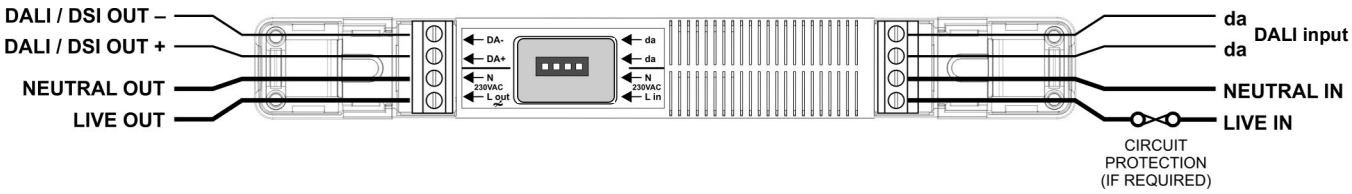


Wiring diagrams

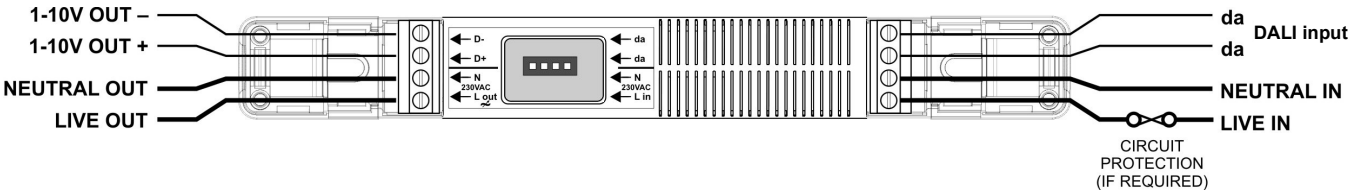
DA-SL-APD



DA-SL-APDR



DA-SL-APAR



Programming using UNLCDHS

To get to the Addresser Menu using the UNLCDHS. Product Family > D-Mate > DM-AP

Device addressing			
Parameter Name	**Default Value**	**Range / Options**	**Description**
Group Address	0	Groups 0-15, Y or N	The addresser passes through messages from this group if the setting is Yes. It can respond to multiple group addresses.
Short Address	Blank (none)	0-63	The DALI short address
Clear All Groups	-	-	All groups are cleared to No. The addresser will not respond o any group messages.
Set All Groups	-	-	All groups are set to Yes. The addresser will respond to all group messages.

Configuration			
Factory Reset	-	-	Restores factory default settings, also called hard reset.
Min Value	1	0-255	Only applies to analogue version. Sets the minimum output level .
Max Value	255	0-255	Only applies to analogue version. Sets the maximum output level .
Fade Time	1	0-255 seconds	Only applies to analogue version. Sets the fade time.
DSI	No	Y or N	Yes sets the ballast control protocol to DSI. No sets the ballast control protocol to DALI.
Relay off at 0	Yes	Y or N	Relay turns off when arc power level=0 or if OFF command received, otherwise relay is on.
Relay always off	No	Y or N	Relay does not switch with DALI level but stays off (saves power).
Relay always on	No	Y or N	Relay does not switch with DALI level but stays on.

Device info			
HW Variant	-	1-3	1=Digital with relay, 2=Digital no relay, 3=Analogue
SW Build	-	-	Software version.

Readback and send via DM-ADP-PRG and UNLCDHS

The UNLCDHS has the ability to read back the settings stored in an addresser and give feedback that settings have been sent and stored in an addresser.

Sending parameters

- When sending parameters the DM-ADP-PRG's LED will flash. If the parameter has not been stored in the addresser, then the missing value(s) is replaced by dashes.

To read back individual parameters

- Navigate to the parameter and press the 'R' (Read) button.
- The handset will click when the parameter has been read back, the DM-ADP-PRG will flash its LED, and the value will be shown against the parameter in the menu.

To read back all of the parameters in a menu

- Press and hold the 'R' (Read) button for more than 1 second.
- The handset will click every time a parameter is received
- The DM-ADP-PRG will show multiple flashes of its LED
- All of the values will be shown against the parameters in the menu.
- The individual parameters may be edited and then saved as a 'Macro'.

Notes

- *If a parameter(s) has been missed because of a communication error, the missing value(s) is replaced by dashes.*

Technical data

Dimensions	See diagram opposite	
Weight	DA-SL-APD	0.06kg
	DA-SL-APDR	0.07kg
	DA-SL-APAR	0.07kg

DALI bus (all addressers)

Supply Voltage	9.5VDC - 22.5VDC	
Supply Current	DA-SL-APD	8mA
	DA-SL-APDR	16mA
	DA-SL-APAR	16mA

Cannot be considered as SELV since DALI, DSI and 1-10V ballasts only offer basic insulation, therefore all devices on the DALI bus must be wired as if carrying mains potential.

Maximum number DALI, DSI or 1-10V ballasts is 10

DA-SL-APDR & DA-SL-APAR only

Supply Voltage	230VAC +/- 10%
Frequency	50Hz
Maximum Load	2A of lighting and/or ventilation including incandescent, fluorescent, compact fluorescent, low voltage (by switching the primary of transformer). Switch SON lighting loads via a contactor.

Terminal Capacity	Screw terminal versions 2.5mm^2 Spring terminal versions 0.75mm^2
Temperature	-10ºC to 35ºC
Humidity	5 to 95% non-condensing
Material (casing)	Flame retardant PC
Type	Class 2
IP rating	IP40
Compliance	EMC-2014/30/EU LVD-2014/35/EU

For further compliance information visit www.cpelectronics.co.uk/compliance

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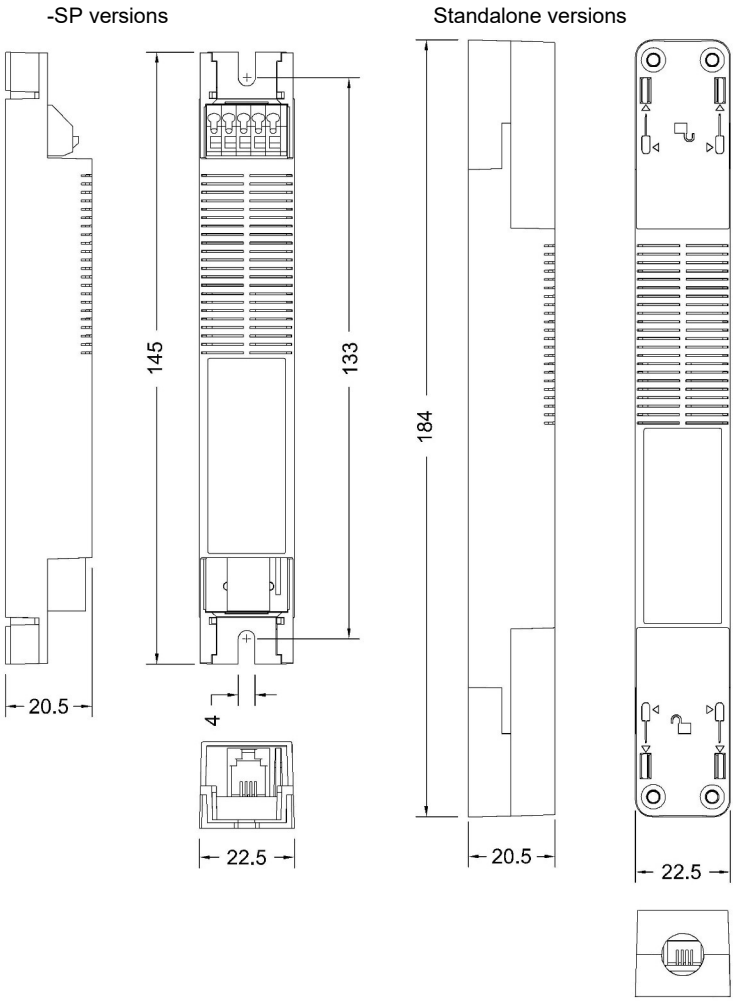

Part numbers

	Part number	Description
Addressers	DA-SL-APD	DALI programmable addresser-DALI/DSI
	DA-SL-APDR	DALI programmable addresser-DALI/DSI-relay
	DA-SL-APAR	DALI programmable addresser-1-10V-relay
	DA-SL-APD-SP	DALI programmable addresser-DALI/DSI spring terminals
	DA-SL-APDR-SP	DALI programmable addresser-DALI/DSI-relay spring terminals
	DA-SL-APAR-SP	DALI programmable addresser-1-10V-relay spring terminals
Power supply	DA-SL-PSU	DALI PSU
Accessories	DM-ADP-PRG	D-Mate programming adaptor
	UNLCDHS	Universal LCD IR handset

UK Patent no. GB2467196
International patents pending

IMPORTANT NOTICE!
This device should be installed by a qualified electrician in accordance with the latest edition of the IEE Wiring Regulations and any applicable Building Regulations.

bsi. ISO 9001 Quality Management FM 45789 | ISO 14001 Environmental Management EMS 534520 | ISO 45001 Occupational Health and Safety Management OHS 642036

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