

# 11X and 12X Modular Panels

The Modular control panels are a DALI-compatible range of user interfaces that allow basic adjustments to the lighting system.

The range includes pushbutton, rotary and slider controls in a range of panel finishes. Each module is fitted with an indicator LED and an infrared receiver is included which gives the option of remote operation using a Helvar infrared remote control.

The remote control also allows additional control of the system's functions and can be used as a programming device on simple systems.

## Key Features

- Out-of-box operation, supplied preprogrammed.
- Easily reconfigured and fully programmable.
- Designed to fit both DIN and UK standard back boxes.
- Double-gang version can take three independent modules.

## Panel Finishes

The modular control panels are available in a range of finishes, which are shown below.



Panel finish	Single-gang	Double-gang
White Plastic	200S	200D
Polished Brass	201S	201D
Stainless Steel	202S	202D
Stainless Steel and Grey Insert	203S	203D

## Control Modules



Rotary (100)



Single Slider (110)



Double slider (111)



On/Off (121)



Up/Down (122)



4 scene + Off (124)



4 scene, Off + Up/Down (125)



7 scene + Off (126)



Blank (150)

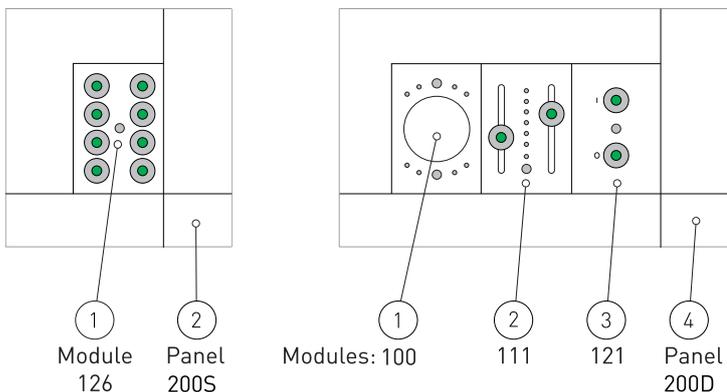


Infrared Module (170)

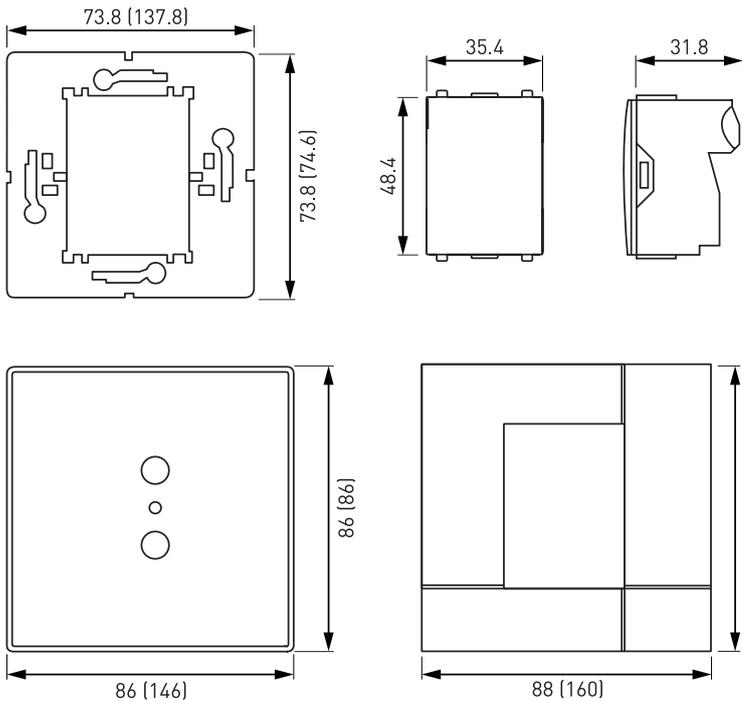
## Installation Notes

- All Modular Panels use a data protocol that conforms to the DALI protocol.
- All cabling must be 230 V mains rated.

## Combination Examples

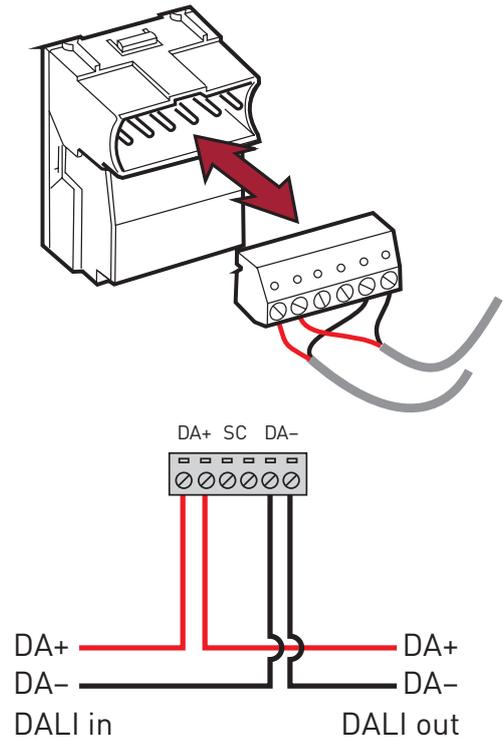


## Dimensions (mm)



( ) = Double gang dimensions

## Connection



## Technical Data

### Connections

DALI cable:	Removable connector block Wire size: 0.5 mm <sup>2</sup> – 1.5 mm <sup>2</sup> solid or stranded
Cable rating:	All cables must be mains rated.

### Electrical Data

DALI supply input:	12 V – 22.5 V
DALI consumption:	10 mA

### Operation

IR frequency:	36 kHz
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### Operating conditions

Ambient temperature:	0 °C to +50 °C
Relative humidity:	Max. 90 %, noncondensing
Storage temperature:	-10 °C to +70 °C

### Mechanical data

Dimensions:	35.4 mm x 31.8 mm x 48.4 mm
Weight:	41 g with DALI connector
IP rating:	IP30
Colour:	White (RAL 9016) Anthracite Grey (RAL7016)

### Conformity and standards

Conformity:	
EMC emission:	EN 55015
EMC immunity:	EN 61547
Safety:	EN 61347-2-11
Environment:	Complies with WEEE and RoHS directives.

### Compatibility

Designer:	5.2.0 or later
Toolbox:	2.4.2 or later