

Trailing Edge Dimmer: 4 x 500 W (4 x 2.2 A)

The DIN rail mounted DIGIDIM 454 is a 4-channel Trailing Edge Dimmer with each channel capable of controlling 2.2 A. It supports capacitive and resistive loads and can be connected directly to mains voltage lamps, and low voltage lamps with electronic transformers. Each channel of the dimmer has both current and thermal protection.

The 454 4-channel 2.2 A dimmer features an intuitive LED segment display. There is a push button user interface for monitoring, manual configuration and control purposes.

Key Features

- LED segment and push buttons for manual configuration including the following output types; Linear, Square, S-law, DALI Logarithmic, SSL curve and DALI linear
- Capable of handling resistive and capacitive loads
- Manual wired override input
- Voltage and frequency compensation
- Over current and temperature protection included
- Power on to last level

Additional Functions

The following features may be accessed using the DIGIDIM Toolbox or Designer software:

- Max/Min levels, Fade times, Scenes and Groups
- Dimmer status report
- System failure level/ignore
- Power on level
- Power on to last level

Installation Notes

- For installation in a restricted access location only
- Isolate the mains supply before installation
- The external mains supply must be protected. It is recommended that a 10 A Type C MCB is used
- All DALI and Mains cabling must be 230 V mains rated
- Do not connect DALI or S-DIM / DMX at the same time
- Install the unit horizontally to allow for heat dissipation
- Any enclosure must provide adequate cooling ventilation



Dimmer Output Types

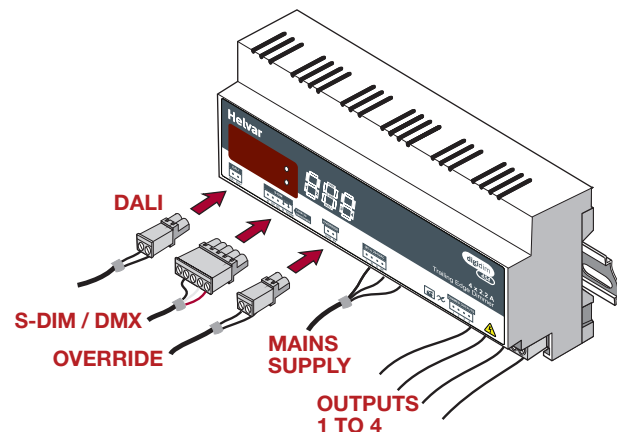
Output	Output type	Control Protocol	
⓪	Non Dim	All	
Ⓛ	Linear	S-DIM / DMX	*
Ⓜ	Square	S-DIM / DMX	*
Ⓝ	S-law	S-DIM / DMX	*
Ⓣ	DALI logarithmic	DALI	**
Ⓢ	SSL curve	DALI	**
Ⓛ	DALI linear	DALI	**

Notes:

* Under DALI control, Ⓣ is used.

** Under S-DIM / DMX control, Ⓛ is used.

Connections



Technical Data

Connections

DALI:	Removable connectors 0.5 mm ² - 1.5 mm ² stranded or solid core.
S-DIM / DMX:	0.22 mm ² -1.5 mm ² low loss RS485 Type (multi-stranded, twisted and shielded)
Mains:	Solid core: up to 4 mm ² Stranded: 2.5 mm ²

Note: Functional earth connection used for DALI / S-DIM screens only

Power

Mains Supply:	85 - 264 VAC, 45 - 65 Hz
Standby Power:	2.3 W
Load Current:	2.2 A (2.2 A × 230 V = 500 W) 4 outputs: 4 × 500 W = 2 kW
Heat Dissipation:	11 W with maximum load (resistive)
DALI Consumption:	2 mA
External Protection:	10 A Type C MCB

Inputs

Communication:	DALI, S-DIM and DMX
Override:	Switched Input
User Interface:	2 push buttons for configuration

Operating and Storage Conditions

Ambient Temperature:	0°C to 40°C
Relative Humidity:	90% max, non-condensing
Storage Temperature:	-10°C to +70°C

Mechanical Data

Dimensions:	See diagram
Housing:	DIN-rail case; 9U
Weight:	280 g
IP Rating:	IP30 (00 at terminals)

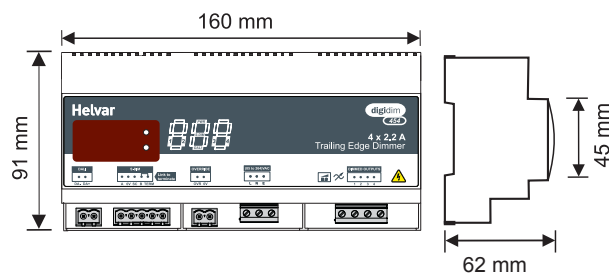
Conformity and Standards

DALI:	According to DALI standard IEC 62386, with Helvar additions
S-DIM:	According to Helvar S-DIM protocol
DMX:	According to DMX512-A protocol
Environment:	Complies with WEEE and RoHS directives

EMC

Emission:	EN 61000-6-3
Immunity:	EN 61 547
Safety:	EN 60 950
Isolation:	4 kV

Dimensions



- For further information see www.helvar.com
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