

DIN Rail 4-Channel Ballast Controller

The Digidim 474 is a 4-channel ballast controller fitted with high inrush relays rated at 16 A per channel, which handle short-lived high peak currents during switch on of loads.

The outputs can be configured to match common ballast control loads including 0/1-10 V, DSI, DALI-broadcast and PWM. The outputs can be configured independent of, or paired with relay channels; 4 additional outputs can be utilized if required. The 474 ballast controller can operate with either a Helvar Digidim or Imagine lighting control system. It is a DIN-rail mounted device for ease of installation.

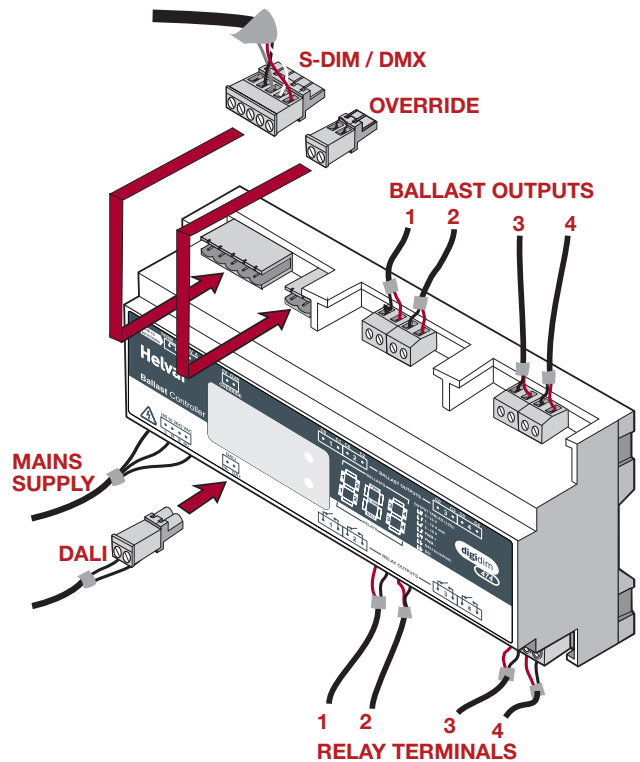
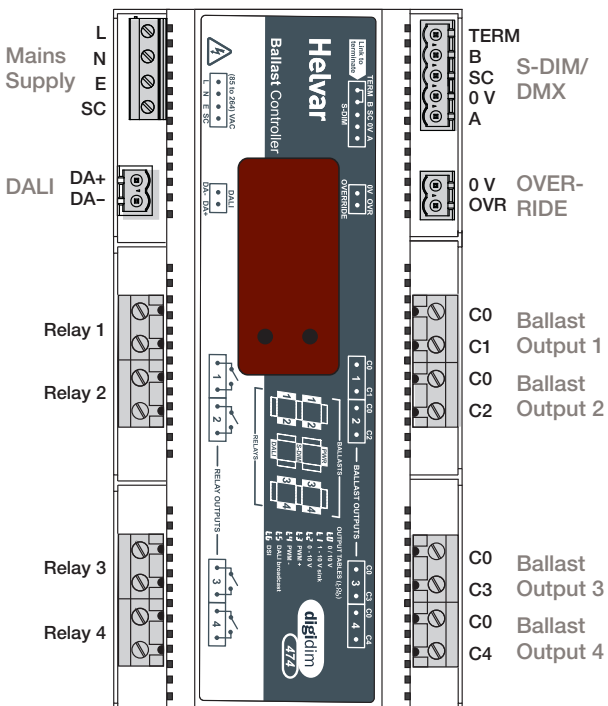
The 474 ballast controller has an intuitive LED segment display and push buttons for monitoring, manual configuration and control purposes.

Key Features

- High inrush specification relays
- Wired override input to allow for external triggers
- LED segment display and push buttons
- Multiple output configurations of:

0 - 10 V:	source 10 mA
1 - 10 V:	sink 100 mA
DALI-broadcast:	source 100 mA
DSI:	source 100 mA
PWM:	source 100 mA

Connections



Installation Notes

- For installation in a restricted access location only
- Isolate the mains supply before installation
- The external mains supply must be protected. External protection must not exceed 6 A
- 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
- Please refer to the 474 DIN Rail 4-Channel Ballast Controller Installation Guide

Technical Data

Connections

Mains/relay/output:	Solid core: up to 4 mm ² Stranded: 2.5 mm ²
DALI:	0.5 mm ² - 1.5 mm ² (max. 300 m @ 1.5 mm ²)
S-DIM / DMX:	0.22 mm ² -1.5 mm ² low loss RS485 Type (multi-stranded, twisted and shielded)
Relay channels:	2 channels per 4-way connector; 2.5 mm ² stranded

Power

Mains Supply:	85 - 264 VAC, 45 - 65 Hz
Power Consumption:	2.4 W (min) to 11 W (all outputs fully loaded)
Power Circuit Protection:	6 A maximum. The external supply must be protected.
DALI Consumption:	2 mA

Inputs

Communication:	DALI, S-DIM and DMX
Override:	Wired override input
User interface:	2 push buttons for configuration

Outputs

0 - 10 V:	Source 10 mA
1 - 10 V:	Sink 100 mA
DALI / DSI:	(50 ballasts): Source 100 mA
PWM +/- :	(50 ballasts): Source 100 mA

Relay contacts

Channels:	4
Relay contacts:	High inrush (200 µs at 800 A), single pole normally open (SPNO)
Max. load per contact:	16 A resistive / incandescent; 10 A HID (cos γ = 0.6)

For ballasts, quantity is limited by MCB, refer to manufacturer's data. Relay circuit external protection must not exceed 16 A.

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

Housing:	DIN-rail case; 9U
Weight:	280 g
IP Rating:	IP00 (for installation in a restricted access location only)

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 between every connector (apart from common C0 ballast output terminals and S-DIM and Override connectors)

Dimensions

