

## DIGIDIM 4-Channel Relay Unit (494)

The DIGIDIM Relay Unit is a DALI-compatible Interface Unit designed to allow non-dimmable loads to be incorporated into a DIGIDIM lighting control system. The relay unit is a DIN-rail mounted unit that can control four individually programmable relays. The relays are 'normally open', volt-free and can switch resistive loads of up to 10 A.

The relay unit is provided with a status LED, a physical selection switch and four relay state indicators. The status LED provides status and a fault indication, the physical selection switch is used to identify the device during system configuration and also acts as a manual override. The four relay state indicator LEDs are illuminated when the respective relay is closed.

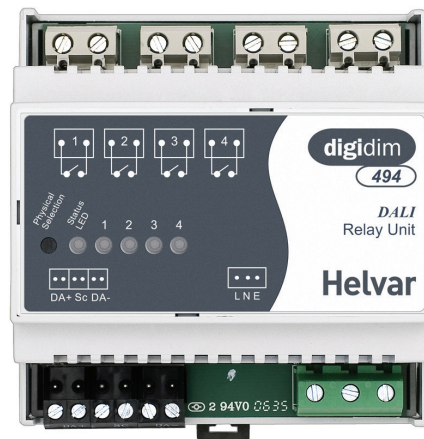
Note: This unit does not contain a DALI power supply and therefore one must be incorporated elsewhere in the system.

### Key Features

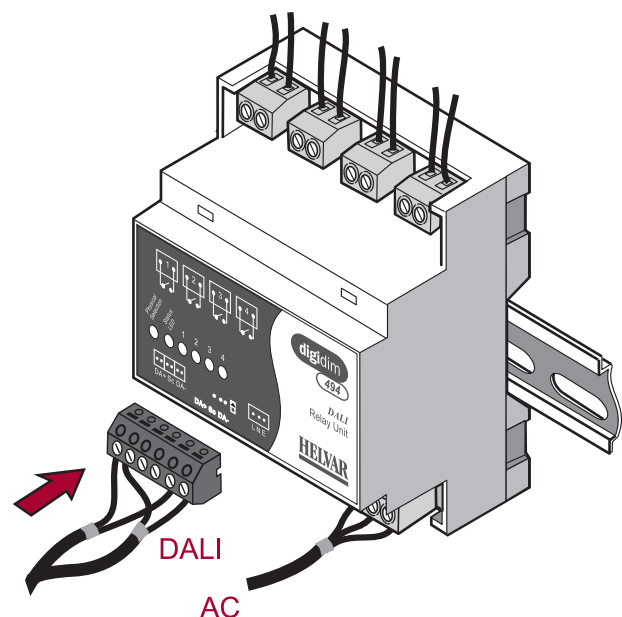
- Four individually programmable relays, normally open and volt-free.
- Relays are internally isolated permitting separate phases to be controlled in one unit.
- Each relay can be manually controlled using the physical selection switch.
- All DALI functions are programmed with Digidim Toolbox software.
- DIN-rail mounted and only 88 mm wide.

### Installation Notes

- The relay unit is for use with non-dimmable loads up to 10 A resistive and must be derated for other load types. See Technical Data overleaf for full details.
- The external mains supply to the unit must be protected.
- External protection must not exceed 6 A MCB.
- All cabling must be 230 V mains rated.



### Connections



## Technical Data

### Relay Loads (max.)

|                      |                              |
|----------------------|------------------------------|
| Resistive:           | 10 A                         |
| Incandescent:        | 8 A                          |
| Inductive:           | 5 A                          |
| Electronic ballasts: | 15 pcs Helvar Type EL-HF/CHF |

### Connections

|                      |   |
|----------------------|---|
| <b>DALI:</b>         | Solid core up to 4 mm <sup>2</sup><br>Stranded up to 2.5 mm <sup>2</sup>  |
| <b>DALI cable:</b>   | Removable connector blocks<br>Wire size: 0.5 mm <sup>2</sup> – 1.5 mm <sup>2</sup><br>stranded or solid core  |
| <b>Cable rating:</b> | All cables must be mains rated.<br>Note: If equipment is used in an electrically noisy environment, the DALI cable should be screened and connected to the earth. |

### Power

|                      |                                    |
|----------------------|------------------------------------|
| <b>Mains supply:</b> | 220 VAC – 240 VAC<br>50 Hz – 60 Hz |
|----------------------|------------------------------------|

**Mains supply output:** None

**DALI consumption:** 2 mA

### Mechanical data

|                    |                          |
|--------------------|--------------------------|
| <b>Dimensions:</b> | 88 mm × 58 mm × 90 mm    |
| <b>Housing:</b>    | DIN-rail case 88 mm wide |
| <b>Weight:</b>     | 300 g                    |
| <b>IP code:</b>    | IP30                     |

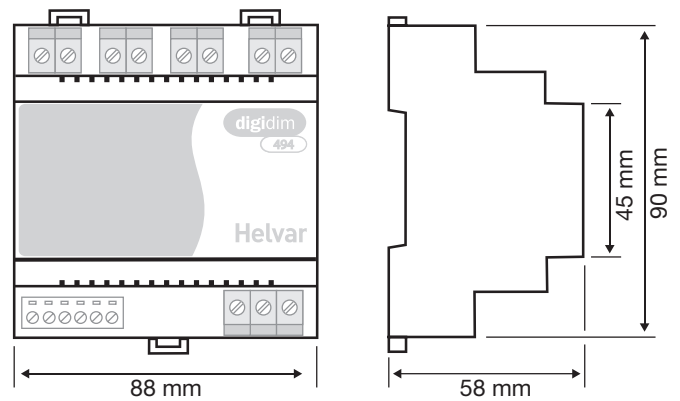
### Operating and storage conditions

|                             |                           |
|-----------------------------|---------------------------|
| <b>Ambient temperature:</b> | 0 °C to +40 °C            |
| <b>Relative humidity:</b>   | Max. 90 %, non-condensing |
| <b>Storage temperature:</b> | -10 °C to +70 °C          |

### Conformity and standards

|                     |  |
|---------------------|--|
| <b>Emission:</b>    | EN 55015                               |
| <b>Immunity:</b>    | EN 61547                               |
| <b>Safety:</b>      | EN 60950                               |
| <b>Isolation:</b>   | 4 kV                                   |
| <b>Environment:</b> | Complies with WEEE and RoHS directives |

## Dimensions



## Wiring diagram

