

494 4-Channel Relay Unit

The 4-Channel Relay Unit is a DALI-compatible interface unit designed to allow nondimmable loads to be incorporated into a 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.



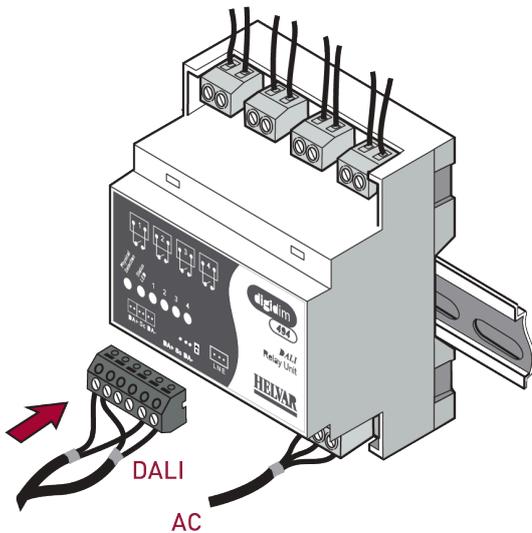
Note: This unit does not contain a DALI power supply and therefore one must be incorporated elsewhere in the system.

Key Features

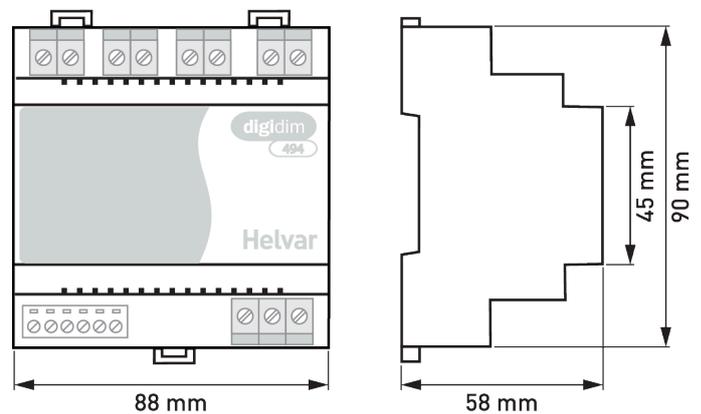
- Four individually programmable relays, normally open and volt-free.
- Relays are internally isolated permitting separate phases to be controlled in one unit.
- Each relay can be manually controlled using the physical selection switch.
- All DALI functions are programmed with either Toolbox or Designer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



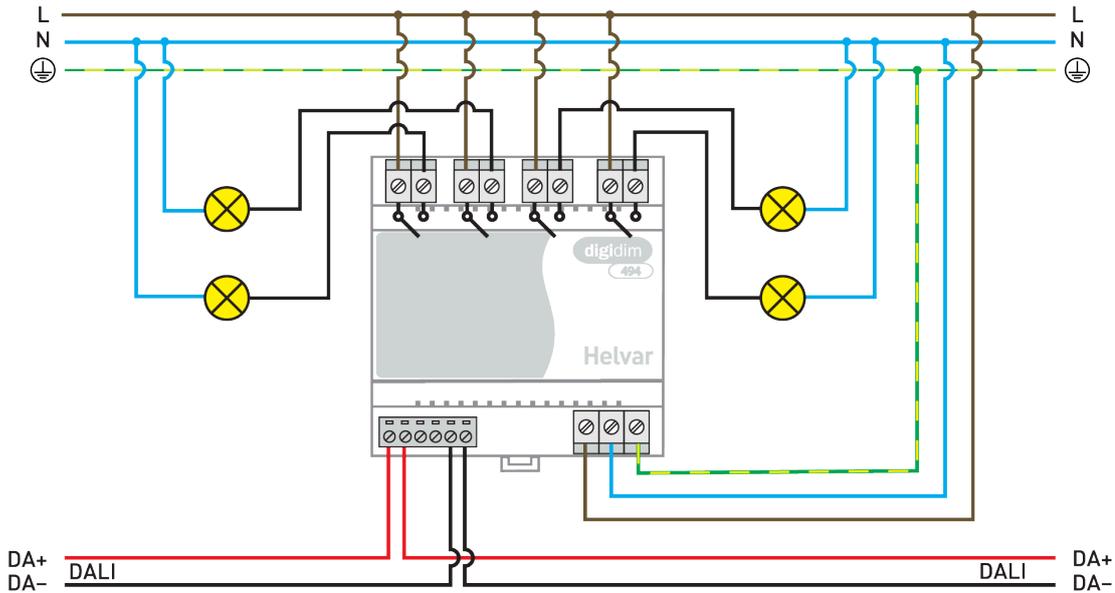
Connections



Dimensions



Wiring Diagram



Technical Data

| Relay loads (max.) | |
|----------------------|------------------------------|
| Resistive: | 10 A |
| Incandescent: | 8 A |
| Inductive: | 5 A |
| Electronic ballasts: | 15 pcs Helvar Type EL-HF/CHF |

| Operating and storage conditions | |
|----------------------------------|--------------------------|
| Ambient temperature: | 0 °C to +40 °C |
| Relative humidity: | Max. 90 %, noncondensing |
| Storage temperature: | -10 °C to +70 °C |

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

| Mechanical data | |
|-----------------|-----------------------------------------------------------|
| Dimensions: | 88 mm × 58 mm × 90 mm |
| Weight: | 300 g |
| Housing: | DIN-rail case 88 mm wide |
| Mounting: | DIN rail (installation in switchgear/controlgear cabinet) |
| IP rating: | IP30 |

| Electrical data | |
|----------------------|------------------------------------|
| Mains supply: | 220 VAC – 240 VAC 50 Hz – 60 Hz |
| Mains supply output: | None |
| DALI consumption: | 2 mA |
| Isolation: | 4 kV |

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