# digidim

# DIGIDIM Universal Dimmer (452)

# Helvar

*freedom in lighting*

CE

The DIGIDIM Universal Dimmer is a DALI-compatible lamp interface unit for use in a DIGIDIM lighting control system. The dimmer is a DIN-rail-mounted unit that can control a maximum load of 1000 W at 230 V.

It has two operating modes, either of which can be used with mains-voltage lamps:

• Trailing-edge mode is for use with low-voltage lamps with electronic transformers.

• Leading-edge mode is for lamps with magnetic transformers, provided that the transformers are approved for dimming use by their manufacturers.

The dimmer is provided with a status LED and a physical selection switch that can be used to identify the device during system configuration.

The dimmer is also provided with an optional addressing switch that allows simple DALI grouping of the device. The default position '0' allows the normal grouping with DIGIDIM remote controller, Toolbox or Designer software.
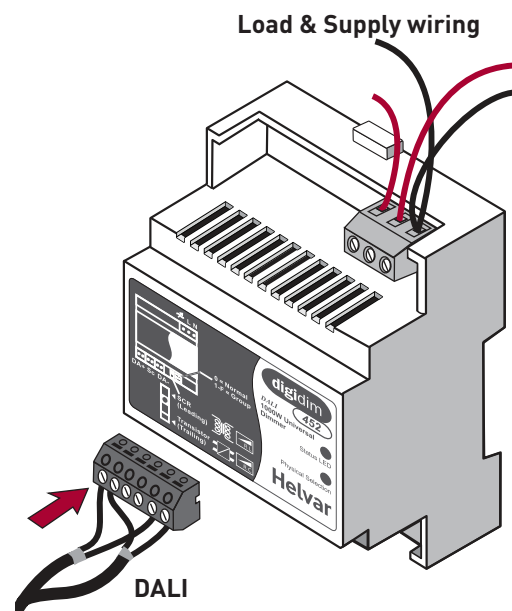
## Key Features

• Out-of-box operation. No programming required when using DIGIDIM slider, rotary, or push-button panels. For scene panels, 'preset download' must be carried out.

• Input voltage fluctuation compensation ensures stable output levels with fluctuating incoming mains levels.

• Group-selection switch for quick and simple programming.

• Operating-mode switch (leading- or trailing-edge dimming).

• Overcurrent, power and temperature protection.

• DIN-rail mounted and only 70 mm wide.

## Additional Functions

The following functions may be programmed using the 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

*Load & Supply wiring*

*DALI*

*\* These functions are programmable using IR remote.*

# Technical Data

## Connections

**DALI:**  Removable terminal block
Up to 4 mm² solid core or up to
2.5 mm² stranded
*Note: If equipment is used in an
electrically noisy environment,
ensure the DALI cable is screened
and the screen earthed.*

## Power supply

**Mains supply:**  100 VAC – 240 VAC (nominal)
85 VAC – 264 VAC (absolute)
45 Hz – 65 Hz

**Load current:**  4.4 A (4.4 A × 230 V = 1000 W)

**Heat dissipation:**  7 W with maximum load (resistive)

**DALI consumption:**  2 mA

## Mechanical data

**Dimensions:**  90 mm × 70 mm × 58 mm

**Weight:**  180 g

**Mounting:**  DIN rail (installation in
switchgear/controlgear cabinet)

**IP code:**  IP30

## Operating conditions

**Ambient temperature:**  0 °C to +40 °C
Above this temperature, derate
according to the adjacent graph.

**Relative humidity:**  Max. 90 %, noncondensing

**Storage temperature:**  –10 °C to +70 °C

## Conformity and standards

**EMC emission:**  EN 55015

**EMC immunity:**  EN 61547

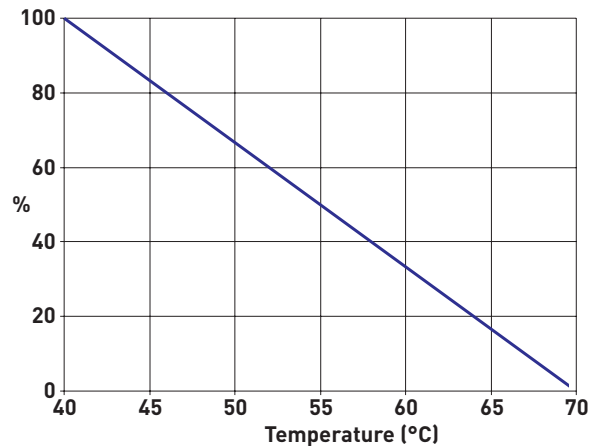**Safety:**  EN 61347-2-11

**Environment:**  Complies with WEEE and RoHS
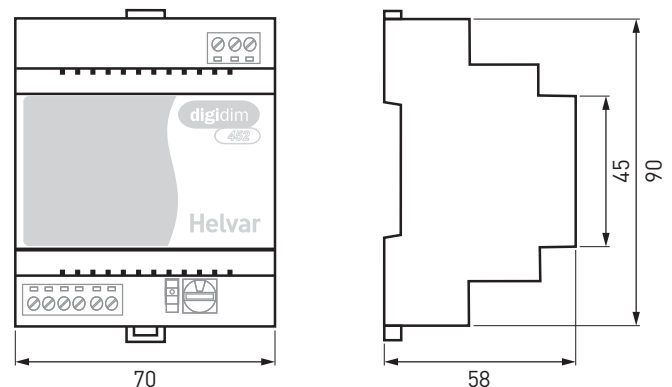directives.

## Software compatibility

**Designer:**  4.1 or later

**Toolbox:**  All versions

## Load Power Derating vs. Ambient Temperature



## Dimensions (mm)



## Connections