

# Helvar

## Switch Interface Unit with LED Tellback (445)

freedom in lighting

The Digidim 445 is a compact interface unit that allows the connection of third-party switches or button panels to a Helvar lighting control system.

The unit provides four switch inputs for use with volt-free contacts, and four LED outputs for indicator LEDs.

Power for the unit is derived from the DALI network, so no external power supply is required.

Connections to the unit are via screw terminals.

The compact design means that the unit can be mounted within a third-party switch/button module or back box.

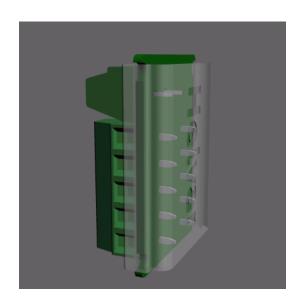
The unit is fully compatible with Helvar lighting control systems, and its operation is configured using Helvar Toolbox or Designer software.

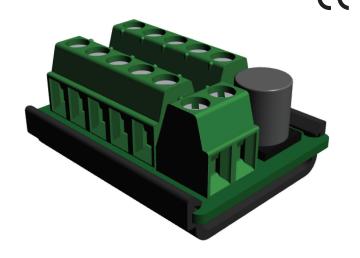
## **Key Features**

- Compact design
- 4 switch inputs
- 4 LED outputs
- Powered from DALI network

## 3D Viewer

(Electronic version only)

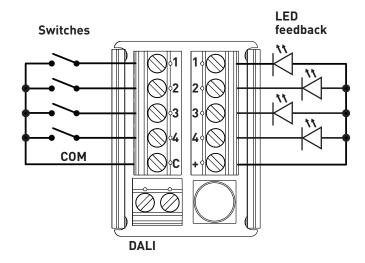




## Connections

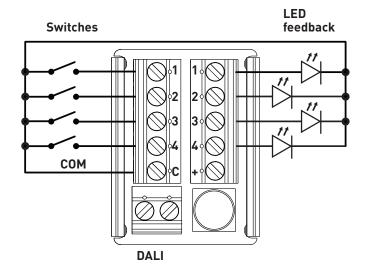
#### Common anode

(Default 'LED Type' setting)



### Common cathode

(Set 'LED Type' to 'Common cathode' in Toolbox or Designer software.)





Technical Data freedom in lighting

Connections

**Inputs:** 4 inputs

COM input ground

Overload protection:  $\pm 7 \text{ V}$ 

**Short-circuit current:** 0.5 mA max.

**Debounce period:** 50 ms

Voltage-free switched

inputs:

5 V nominal with switch open, must be less than 0.3 V with

switch closed

**Isolation:** No isolation from DALI network:

switches must provide user

protection

**LED output:** 5 V source,  $1 \text{ k}\Omega$  source

impedance

Cable requirements

Wire size: Up to 1.5 mm<sup>2</sup>

**Strip length:** 5 mm

**Power** 

**DALI supply output:** None (Use external DALI power

supply)

**DALI consumption:** 15 mA

Maximum wire length

Switch inputs: 0.5 m
LED driver outputs: 0.5 m
DALI: 300 m

Mechanical data

**Dimensions:** 30 mm × 23 mm × 14 mm **Connector screws:** M2 (screwdriver blade 0.4 mm

× 2.5 mm)

IP code: IP00

Operating conditions

Ambient temperature: 0 °C to +40 °C

Relative humidity: Max. 90 %, noncondensing

Storage temperature:  $-10 \, ^{\circ}\text{C}$  to  $+70 \, ^{\circ}\text{C}$ 

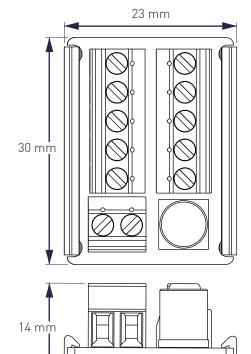
**Conformity and standards** 

EMC emission: EN 55015
EMC immunity: EN 61547
Safety: EN 60950

**Environment:** Complies with WEEE and RoHS

directives

## **Dimensions**



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