

Switch Interface Unit with LED Tellback

The Digidim 445 is a very compact interface unit suitable for the conversion of 3rd party switches or button panels, to be compatible with a Helvar lighting control system.

The unit provides four switch inputs for use with volt free contacts, and four LED output drivers 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.

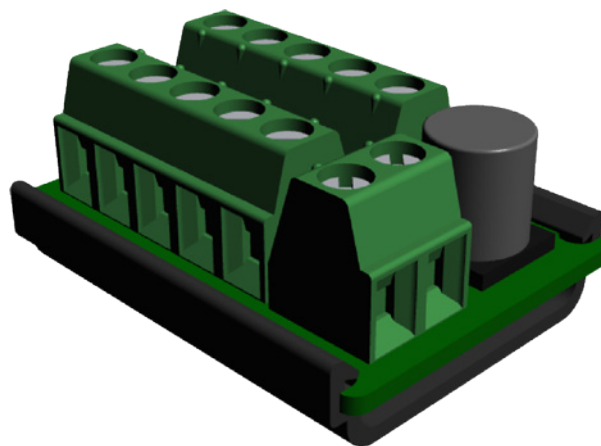
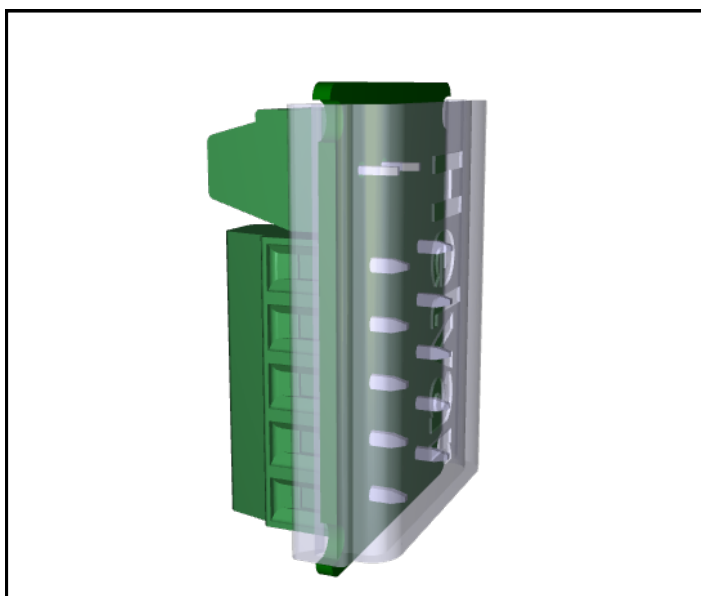
The compact design means that the unit can be mounted within a 3rd party switch/button module or back box.

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 Driver outputs
- Powered from DALI network

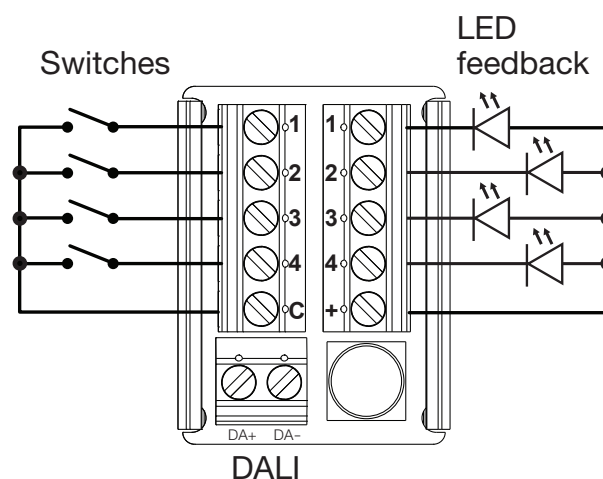
3D viewer



Connections

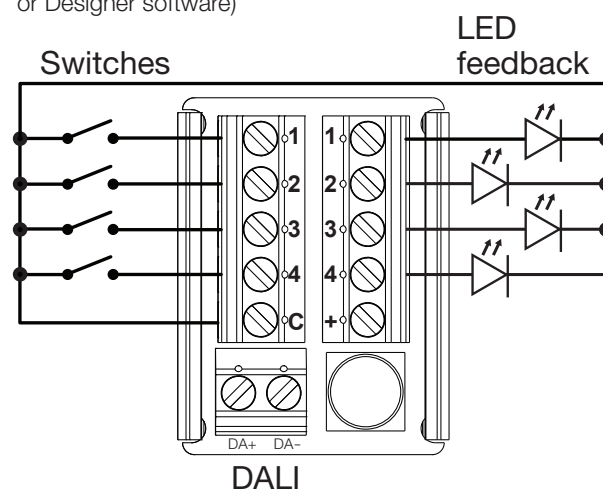
Common anode

(Default 'LED Type' setting)



Common cathode

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



Technical Data

Electrical

DALI consumption:	15 mA
Overload Protection:	± 7 V
Short-circuit current:	0.5 mA maximum
Debounce period:	50 ms
Isolation:	No isolation from DALI network: Switches must provide user protection
LED output:	5 V source, 1 k Ω source impedance

Cable Requirements

Wire size:	Up to 1.5 mm ²
Strip length:	5 mm
Maximum wire length	
Switch inputs:	500 mm
LED driver outputs:	500 mm
DALI:	300 metres

Mechanical Data

Dimensions:	30 x 23 x 14 mm (see diagram)
Connector screws:	M2 (Screwdriver blade 0.4 x 2.5 mm)

Operating and Storage Conditions

Ambient Temp:	0°C to +40°C
Storage Temp:	-10°C to +70°C
Relative Humidity:	Max 90%, non-condensing

Conformity and Standards

EMC Immunity:	EN 61547
Emissions:	EN 61000-6-3
Safety:	EN 60950
IP rating:	IP 00
Environmental:	Complies with WEEE and RoHS directives

Dimensions

