

freeDim Follower (FD-2101)

The freeDim Follower controls additional loads for Helvar's freeDim lighting control solution for personalised lighting control.

The unit is wirelessly controlled by the freeDim Master. Up to 10 freeDim Followers can be connected to each freeDim Master.

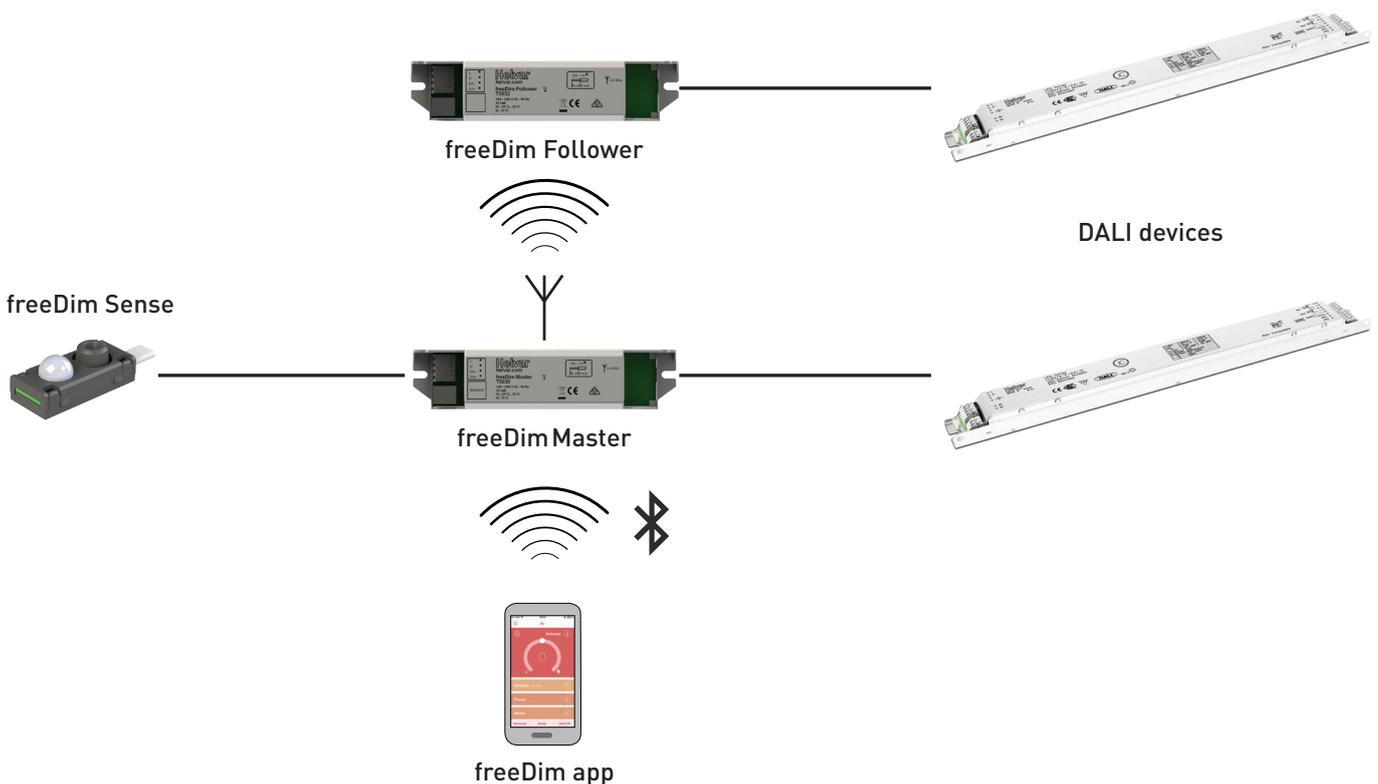
The freeDim Follower uses the information provided by the freeDim Master to intelligently control lighting levels and reduce energy usage.

It receives commands from freeDim Master and forwards them to a compliant DALI load device, such as a ballast or an LED driver. This DALI device adjusts the lighting to the required intensity and colour temperature.



Key Features

- Improved lighting control using DALI Type 8 protocol (colour temperature).
- Capable of increased energy savings through daylight harvesting and presence detection.
- Provides various dynamic lighting sequences and scenes.
- User-defined profiles stored in freeDim Master.
- Four predefined scenes and two user-defined scenes.
- Changes intensity and colour temperature over the time of day (circadian rhythm).
- Smart setup and control by the freeDim app supported on Bluetooth®-enabled devices.



Bluetooth® is a registered trademark of Bluetooth SIG, Inc

Technical Data

Electrical data

- Mains (L/N) :** 100 VAC – 240 VAC (nominal),
50Hz – 60 Hz, 28 mA max.
- DALI (DA+, DA-) :** Max. 8 mA supply (basic insulated, use mains-rated cabling). Suitable for controlling up to 4 devices.

Cable (mains and DALI): Mains rated, 0.5 mm² to 1.5 mm² solid, stripped, 8 mm to 9 mm

Mechanical data

- Case:** Nonflammable ABS Blend (UL94-V0)
- Dimensions:** 147 mm × 35 mm × 22 mm
- Weight:** 250 g

Power ratio and frequency

802.15.4 wireless: Integral antenna -2 dBm max. at 2.4 GHz, channels 15 and 25

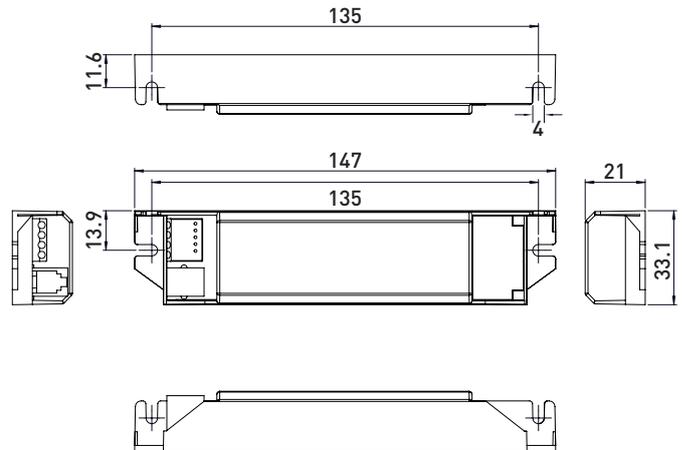
Operating and storage conditions

- Operating temperature:** 0 °C to +50 °C
- Storage temperature:** -40 °C to +80 °C
- Relative humidity:** 90% max., noncondensing
- tc** +75 °C

Conformity and standards

- DALI standards:** IEC 62386 101 2014
IEC 62386 209 (CT)
- EMC emissions:** EN 301489-1 v1.9.2
EMC Standard for radio equipment and services, common technical requirement
EN 301489-17 v2.2.1
EMC Standard for radio equipment, specific conditions for broadband data transmission
- EMC immunity:** EN 61547: 2009 equipment for general lighting purposes, immunity requirements
- RandTTE directive :** EN 300328 v1.8.1
EMC and ERM, wideband transmission systems, data transmission operating in 2.4 GHz ISM band.
- Safety:** EN 61347-2-11: 2002
Lamp control gear. Particular requirements for miscellaneous electronic circuits used with luminaires.
- Environment:** Complies with WEEE and RoHS Directives.

Dimensions (mm)



Connections

