





950 Router Datasheet

The 950 Router is a certified DALI-2 Multi Master Application Controller capable of controlling DALI-2 Lighting, DALI-2 Controls as well as Helvar's unique range of loads and controls which also connect to the DALI-2 network.

Control and power up to four DALI-2 networks with the 950 Router. Scale up to large and complex projects by networking multiple Imagine Routers together using standard TCP/IP Ethernet connection.

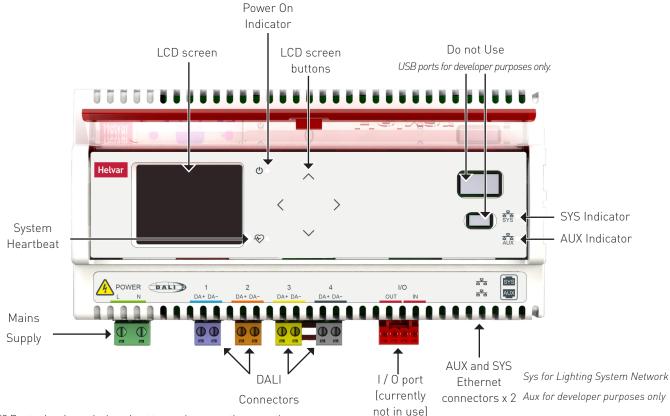
Programming can be carried out using Helvar's Designer software. All programming data is stored within the system itself eliminating a central point of failure and the need to always program with the latest saved configuration file.



Key Features

- DALI-2 Certified Multi-master application controller.
- Support for 512 DALI devices (128 per subnet consisting of 64 lighting and Helvar DigiDim services + 63 DALI-2 Controls. Address 128 reserved for Application Controller).
- Built in LCD for DALI network testing and alerts display.
- Built-in real-time clock.

- Can be networked together to form large scalable systems.
- Compatible with other Helvar routers (905/910/920).
- Integration with other building systems.
- LightOverTime Circadian Rhythm Control.
- No central database required for system operation.



Note: The 950 Router has been designed not to require an earth connection.

Note: Where DALI cable has screen, terminate to cabinet earth.

Technical Data

Connections

Mains cable. Solid core up to 2.5 mm²

Stranded up to 2.5 mm²

Note: The 950 Router has been designed not to require an earth connection.

Note: Terminate all DALI screen cables to cabinet earth. DALI cable:

0.5 mm² - 2.5 mm²

Max. length: 300 m @ 1.5 mm²

2 × RJ45 10/100/1000 Mb/s, Cat 5E up to 100 m Ethernet: (Auto MDI/MDI-X crossover)

Sys for Lighting System Network Aux for developer purposes only

Power supply

Note: See router variants section below.

240 V: 220 VAC - 240 VAC (nominal) Mains supply:

198 VAC - 264 VAC (absolute)

45 Hz - 65 Hz

100 VAC - 120 VAC (nominal) 110V:

90 VAC - 140 VAC (absolute)

45 Hz - 65 Hz

Power factor: >0.95 at full load

Power consumption: 35 W (All DALI subnets fully loaded)

Power circuit protection: Internal fuse. External protection according to

supply wiring, max. 6 A.

DALI Network Limitations

DALI-OUT current: 4 × 240 mA (guaranteed)

4 x 250mA (maximum)

Mechanical data

Dimensions: 10U -177 mm x 99.5 mm x 58 mm

Weight: 460 g

Mounting: DIN Rail. Keep the Ethernet cable separate from

all mains and DALI wirings.

IP code: IP20 (IP00 at connectors) LCD: Colour display 320x240px

Operating and storage conditions

Ambient temperature: 0 °C to +40 °C

Relative humidity: Max. 90 %, noncondensing

-10 °C to +70 °C Storage temperature:

Conformity and standards

DALI data transfer: DALI-2 Application Controller (Multi Master)

IEC62386 Part 101, 103

See DALI Alliance Website for full detail of supported parts https://www.dali-alliance.org/products

EN 55032 Class A, EN 55015 EMC emission:

EN 55024, EN 61547 EMC immunity:

EN 61347 Safety:

Environment: Complies with WEEE and RoHS directives.

Colour: Body: White (RAL 9003)

Lid: Translucent red (RAL 3027)

Material. Body: Polycarbonate

Lid: Polycarbonate

Compatibility

Designer: 5.7.0 or later.

Note: To ensure complete DALI-2 compatibility, use only with Helvar recommended

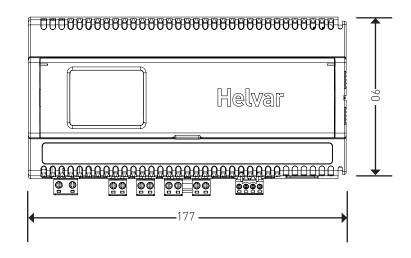
DALI-2 controls (control devices)

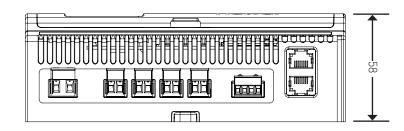
Router variants (Mains Supply)

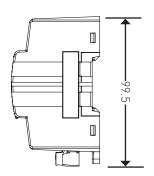
950: 240V version 950-110V: 110V version



Dimensions (mm)







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