

DIGIDIM Router (910)

The 910 DIGIDIM Router uses an Ethernet connection (10/100 Mb/s) as a network backbone to combine DALI networks seamlessly.

Basic functionality is available out of box without any programming. Helvar's Designer software allows for advanced configuration and functional programming of the router.

The system provides energy-saving features via presence detection and daylight harvesting. Further automation can be achieved through scheduled events. OPC server software enables interfacing to building management systems (BMSes).

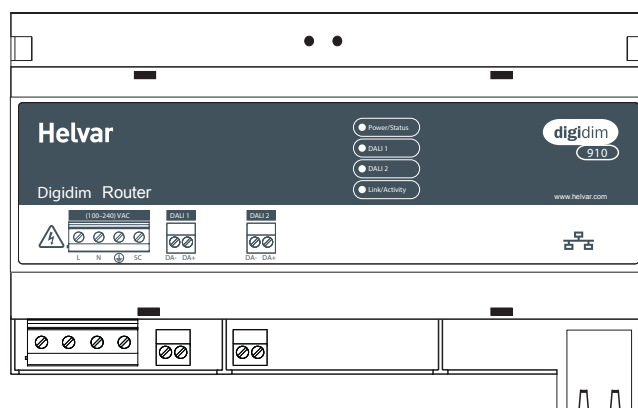
A PC can be connected to the system for diagnostics and logging purposes if required, but all data is stored within the system itself, so there is no need for PC control in daily operation. The elimination of a central controller ensures no single point of failure can cause a total system shutdown.

Key features

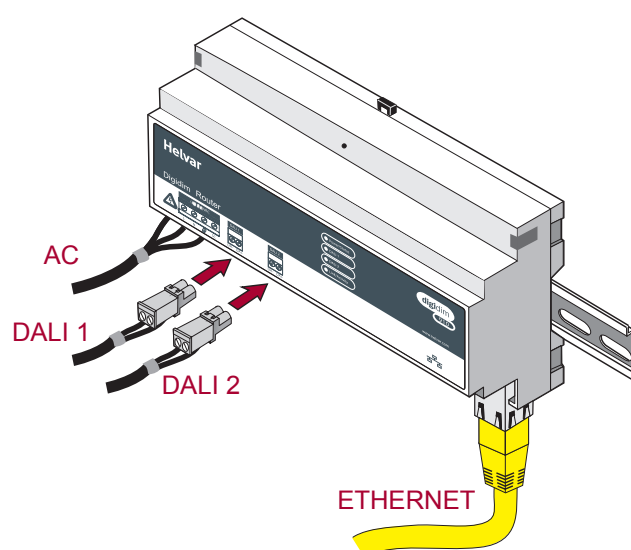
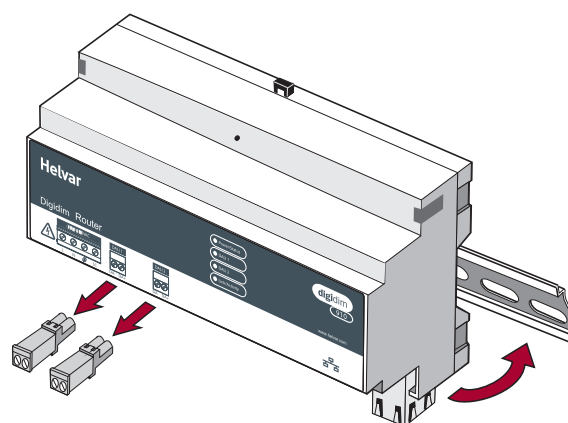
- Each router supports a total of 128 DALI devices (64 devices on each subnet)
- 250 mA power supply for each DALI subnet
- Up to 100 routers may be networked together
- Up to 12 800 DALI devices (16 000 groups) on a router system
- Industry standard protocols (TCP/IP, UDP/IP and DALI)
- Built-in real time clock
- Universal supply input

Applications

- From single office rooms, meeting rooms and corridors to a fully networked office building
- From school classrooms to a networked multisite University complex
- In hospitals, from patient rooms and treatment rooms to public areas



Installation



Technical Data

Connections

Mains cable:	Solid core up to 4 mm ² Stranded up to 2.5 mm ²
DALI cable:	2-wire mains rated, 0.5 mm ² – 2.5 mm ² . Max. length: 300 m @ 1.5 mm ²
Ethernet:	1 × RJ45 10/100 Mb/s, Cat 5E up to 100 m (Auto MDI/MDI-X crossover)

Power

Mains supply:	100 VAC – 240 VAC (nominal) 85 VAC – 264 VAC (absolute) 45 Hz – 65 Hz
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Power consumption: 23 VA

Power circuit protection: 6 A MCB maximum

Supply

DALI: 2 × 250 mA (current limited)

Mechanical data

Dimensions: 9U – 160 mm × 100 mm × 58 mm

Weight: 260 g

Mounting: DIN Rail – Keep mains and DALI wiring separate from Ethernet cable.

IP code: IP00 (for installation in a restricted access location only)

Operating conditions

Ambient temperature: 0 °C to +40 °C

Relative humidity: Max. 90 %, noncondensing

Storage temperature: –10 °C to +70 °C

Conformity and standards

DALI data transfer: DALI standard IEC 62386, with Helvar extensions

EMC emission: EN 55022 Class A

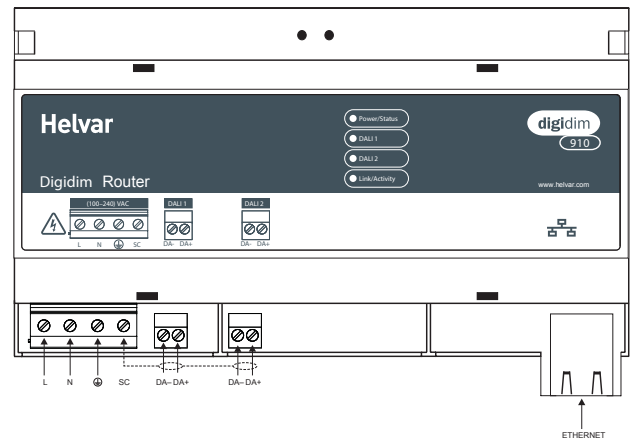
EMC immunity: EN 55024

Safety: EN 60950

Isolation: 4 kV

Environment: Complies with WEEE and RoHS directives.

Inputs/Outputs



Dimensions (mm)

