

## DIGIDIM Router (905)

The 905 DIGIDIM Router uses an Ethernet connection (10/100 Mb/s) to control a local DALI network.

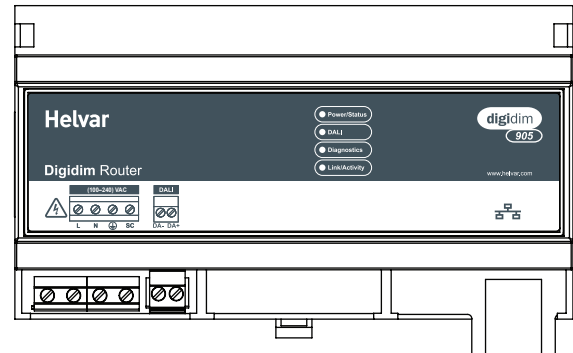
Basic functionality is available out of the box without any programming. Helvar's Designer software allows for advanced configuration and functional programming of the router.

The system provides energy-saving features via presence detection and daylight harvesting. Further automation can be achieved through scheduled events.

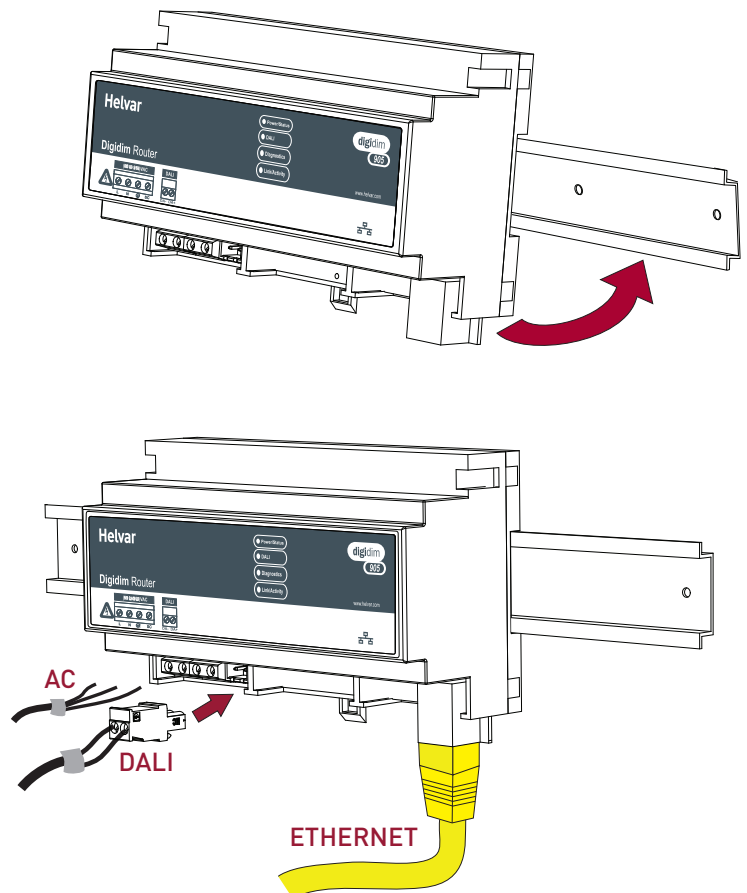
A PC can be connected to the system for diagnostics and logging purposes if required, but there is no need for PC control in daily operation, as all data is stored within the system itself. The elimination of a central controller ensures that no single point of failure can cause a total system shutdown.

### Key Features

- Support for 64 DALI devices.
- Built-in real-time clock.
- Can be networked together to form large scalable systems.
- Provides local as well as central control if required.
- Compatible with other Helvar routers (910/920).
- Integration with other building systems.
- Universal supply input.



### Installation



## Technical Data

### Connections

- Mains cable:** Solid core up to 4 mm<sup>2</sup>  
Stranded up to 2.5 mm<sup>2</sup>
- DALI cable:** 2-wire mains rated,  
0.5 mm<sup>2</sup> – 2.5 mm<sup>2</sup>  
Max. length: 300 m @ 1.5 mm<sup>2</sup>
- 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
- Power consumption:** 13 VA (DALI subnet fully loaded)
- Power circuit protection:** External protection max. 6 A.  
Earth mandatory.

### DALI output supply

- DALI-OUT current:** 1 × 250 mA (current limited)

### Mechanical data

- Dimensions:** 9U – 160 mm × 100 mm × 58 mm
- Weight:** 250 g
- Mounting:** DIN Rail. Keep mains and DALI wiring separate from Ethernet cable.
- IP code:** IP30 (IP00 at connectors)

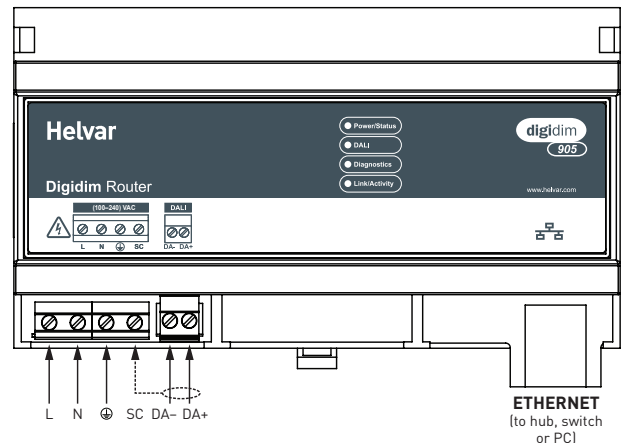
### Operating and storage conditions

- 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
- Environment:** Complies with WEEE and RoHS directives.

## Inputs/Outputs



## Dimensions (mm)

