

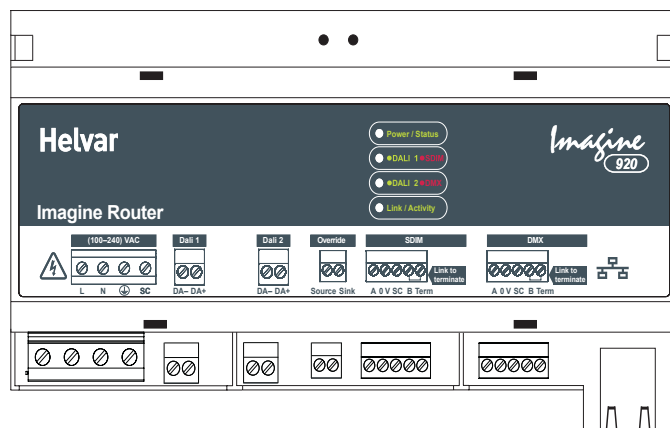
## Imagine Router (920)

The 920 Imagine Router uses an Ethernet connection (10/100 Mb/s) as a network backbone to seamlessly combine DIGIDIM/DALI, SDIM and DMX networks.

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.

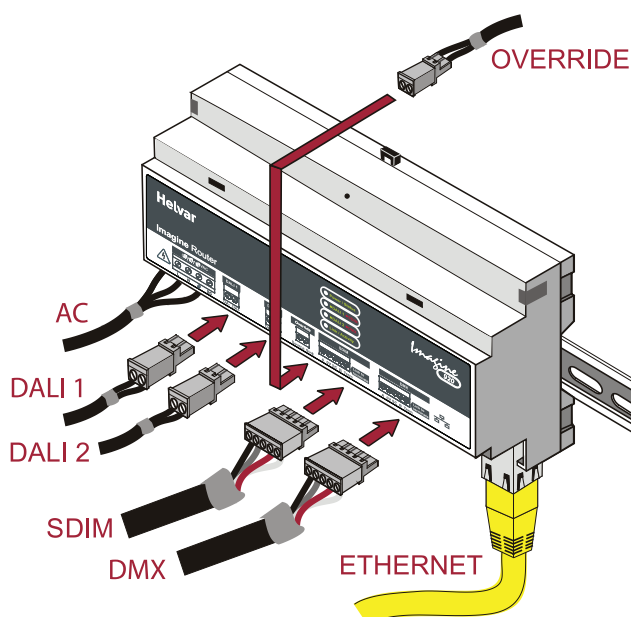
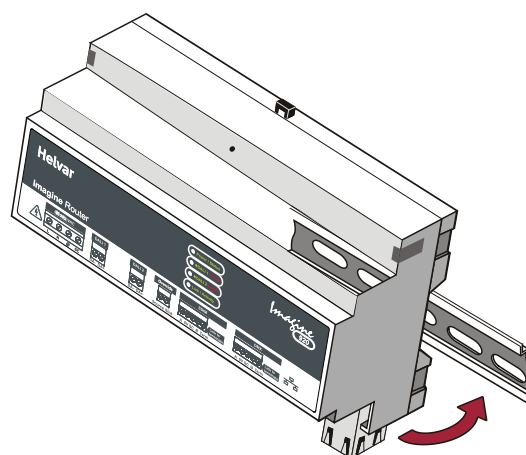
A PC can be connected to the system for diagnostics and logging purposes if required. However, there is no need for PC control in daily operation, as all data is stored within the system itself. The elimination of a central controller ensures that no single point of failure can cause a total system shutdown.



### Installation

#### Key Features

- Support for 128 DALI devices (64 DALI devices on each subnet)
- 250 mA power supply for each DALI subnet
- More than 100 routers may be networked together
- Up to 12 800 DALI devices (16 000 groups) on a router system
- Industry standard protocols (TCP/IP and DALI)
- Built-in real-time clock
- Universal supply input
- Up to 252 SDIM addresses
- Up to 512 DMX addresses 'In' or 'Out'



## 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:	0.5 mm <sup>2</sup> – 2.5 mm <sup>2</sup> Max. length: 300 m @ 1.5 mm <sup>2</sup>
Override (OVR):	Source: 3 V, 50 mA Sink: max. 28 V, 50 mA
SDIM/DMX:	Low-loss RS485 Type (multistranded, twisted and shielded), 3 or 4 cores + screen 0.22 mm <sup>2</sup> – 1.5 mm <sup>2</sup> Max. length: 1 km
Ethernet:	1 × RJ45 10/100 Mb/s, Cat 5E up to 100 m (Auto MDI/MDI-X crossover)

### Power supply

Mains supply:	100 VAC – 240 VAC (nominal) 85 VAC – 264 VAC (absolute) 45 Hz – 65 Hz
Power consumption:	23 VA
Power circuit protection:	6 A max. external protection, earth mandatory

### Supply

DALI:	2 × 250 mA (current limited)
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### Mechanical data

Dimensions:	9U – 160 mm × 100 mm × 58 mm
Weight:	260 g
Mounting:	DIN rail
IP code:	IP30 (IP00 at connectors)

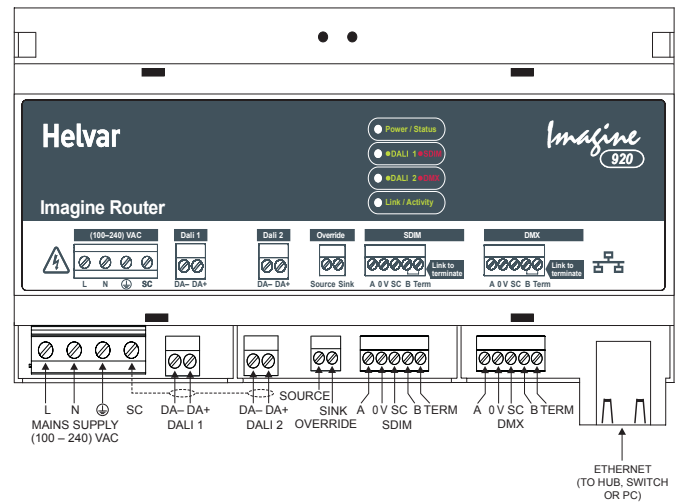
### Operating and storage conditions

Ambient temperature:	0 °C to 40 °C
Relative humidity:	Max. 90 %, noncondensing
Storage temperature:	–10 °C to 70 °C

### Conformity and standards

Emission:	EN 55022 Class A
Immunity:	EN 55024
Safety:	EN 60950
DALI data transfer:	DALI standard IEC 62386, with Helvar extensions
Environment:	Complies with WEEE and RoHS directives.

### Inputs/Outputs



### Dimensions (mm)

