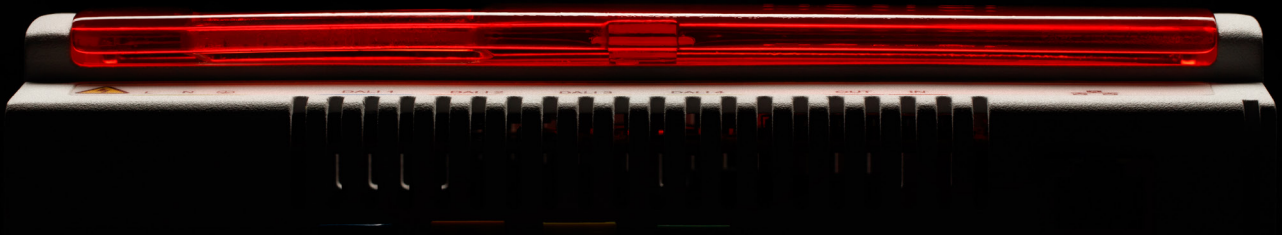# Helvar

IMAGINE
ENDLESS POSSIBILITIES

950 SOLUTION SPECIFICATION SHEET

DALI 2

HELVAR IMAGINE 950 SOLUTION
SPECIFICATION SHEET

HELVAR IMAGINE brings wellbeing and intelligence into your space, offering efficiency and scalability for a wide variety of applications. Imagine builds upon industry standards for easy installation and integration to provide a truly leading lighting control and management solution.

THE 950 ROUTER has been designed to set a new benchmark for lighting control products. It takes the great benefits of the Imagine solution such as wellbeing, efficiency, intelligence and delivers this as an easy to install and scalable product which can be used in wide variety of applications.

KEY BENEFITS AND FEATURES

Market leading DALI capacity
The most DALI connectivity in 1 hardware (application controller)

- Fast installation and reduced install cost
- Easy to scale
- Reduced complexity
- Easy to manage

Compatible with current Imagine
Efficiency, Wellbeing, Intelligence + Variety of add on devices

- Current router, DigiDim controls and loads
- Integration to BMS and Digital Services
- Designer Light Management programming software. Flexible and customisable programming to specific applications and needs

Efficient to Install and Commission
Inbuilt colour LCD features to streamline installation and commissioning

- Easy trouble shooting
- Easy maintenance

Futureproof with DALI-2
Certified with the latest standard for a futureproof system

- Certificated protocol and quality
- Helvar DALI-2 sensor and panels
- Multi-vendor Interoperability and supplied from Helvar

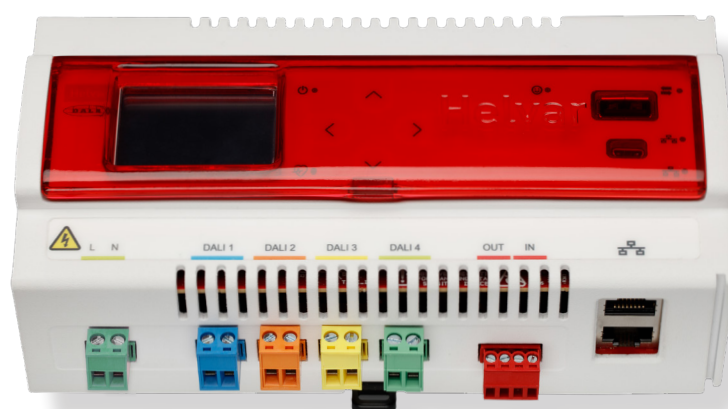# NEW 950 ROUTER   Application Controller

GENERAL

- Certified DALI-2 Multi-master Application Controller
- 4 DALI Networks (subnets)
- Inbuilt DALI PSU per subnet
- LCD display for DALI network test and display alerts
- Built-in real time clock
- Compatible with Designer 5 software
- Compatible with other Helvar routers (905, 910, 920)
- Compatible with current integration options e.g. HelvarNet, Services
- Compatible with Helvar DigiDim inputs and loads
- Support for DALI-2 certified (part 301) Push Buttons
- Support for DALI-2 certified (part 303) Occupancy Sensors

DALI STANDARD (IEC 62386)

- DALI-2 Multi-master Application Controller
  - o   Part 101 (System Components)
  - o   Part 103 (Control Devices)
  - o   Part 301 (Push Buttons)
  - o   Part 303 (Occupancy Sensor)
  - o   Part 332 (Feedback, LED only)
- Support for up to 512 DALI addresses (64+64 per subnet)
- DALI-OUT current: 4 × 240 mA (guaranteed) 4 x 250mA (max)

HARDWARE

- Dimensions: 10U - 177 x 90 x 58mm (excl. connectors)
- Industrial grade processor, Quad core 1.6GHZ, 8GB
- Full colour and backlit LCD resolution 320x240px
- 2xRJ4510/100Mb/s Ethernet ports, separated NICs (1 port currently reserved for developer purposes only)
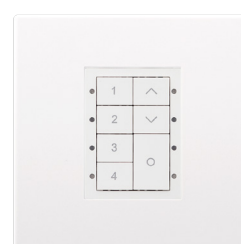
UPDATED HELVAR INPUTS

320D2 - OCCUPANCY SENSOR

- DALI-2 Input Device
- Coverage and feature match with standard Helvar 320 sensor

13xxD2 - BUTTON PANEL RANGE

- DALI-2 Input Device
- Configuration, finishes and feature match with standard Helvar 13xx range
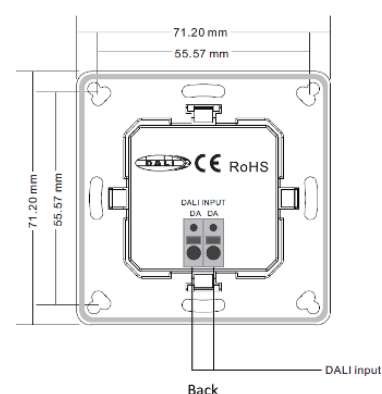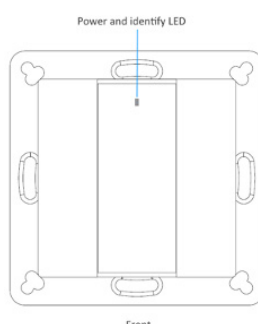
HELVAR 14xx BUTTON PANELS

DALI 2

142WD2 2 Button

- Available button configurations: 2, 4, 6, 8
- Available colour: white
- Removable middle insert for local custom labeling options
- Compatible with alternative manufacturer's frames
- Middle LED for power indicator and identify function
- DALI Current Consumption: 10mA max
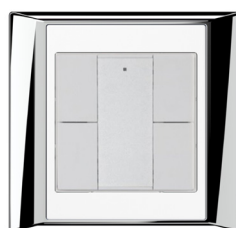- DALI-2 input device

144WD2 4 Button

Power and identify LED

Front

71.20 mm
55.57 mm
71.20 mm
55.57 mm

DALI INPUT
DA DA

RoHS

DALI input

Back

146WD2 6 Button

COMPATIBLE FRAME EXAMPLES
from Alternative Manufacturers*

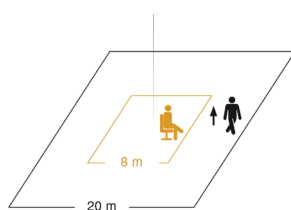Standard European 55x55mm switch module design for compatibility with alternative frame options.

148WD2 8 Button

not supplied by Helvar
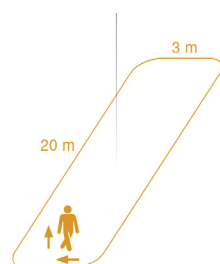
steinel DALI-2 SENSORS FOR HELVAR

IR QUATTRO HD — Open plan large area

Detection zone

- Sensor Technology: Passive Infrared
- Optimum mounting height: 2.8 m
- Small movement detection: 8 x 8 m
- Large movement detection: 20 x 20 m
- DALI Current Consumption: 8mA max
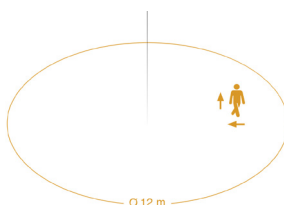- DALI-2 input device

DUAL HF — Corridors

Detection zone

- Sensor Technology: High Frequency, 5.8 Ghz
- Optimum mounting height: 2.8 m
- Small movement detection: 20 x 3 m
- Large movement detection: 20 x 3 m
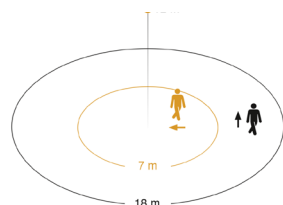- DALI Current Consumption: 14mA max
- DALI-2 input device

HF 360 — Open plan areas with separators | Stairwells | WCs

Detection zone

- Sensor Technology: High Frequency, 5.8 Ghz
- Optimum mounting height: 2.5 m
- Small movement detection: 12 m Diameter
- Large movement detection: 12 m Diameter
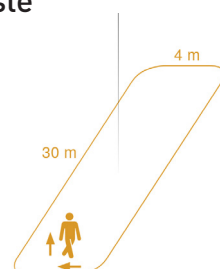- DALI Current Consumption: 10mA max
- DALI-2 input device

IS 3360 MX — High bay open plan

Detection zone

- Sensor Technology: Passive Infrared
- Optimum mounting height: 12 m
- Small movement detection: 14 m Diameter
- Large movement detection: 36 m Diameter
- DALI Current Consumption: 6mA max
- DALI-2 input device
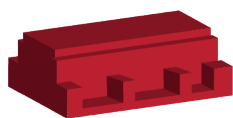
IS 345 MX — High bay aisle

Detection zone

- Sensor Technology: Passive Infrared
- Optimum mounting height: 12 m
- Small movement detection: 30 x 4 m Diameter
- Large movement detection: 30 x 4 m Diameter
- DALI Current Consumption: 6mA max
- DALI-2 input device

KEY SOLUTION COMPONENTS

DALI Routers

Sensors & Panels

GUIs

Apps

Integration

SOLUTION DIAGRAM

DALI-2 & DALI Lighting (Addresses 1-64)
DigiDim Controls (Addresses 1-64)
DALI-2 Controls (Addresses 65-127)

950 Router

Programming Software

Digital Services

Touch Panels, Apps AV Integration

Building Integration

14xxD2 Steinel	320D2 13xxD2	320	321	Panels + Inputs	Load Controllers	Gateways Luminaires
✓	✓	✓	✓	✓	✓	✓ ✓

Other Routers

DALI-2 Controls	320D2 13xxD2	320	321	Panels + Inputs	Load Controllers	Gateways Luminaires
✗	✗	✓	✓	✓	✓	✓ ✓

Helvar