

Helvar

IMAGINE

IMAGINE

ENDLESS POSSIBILITIES



DALI-2 SOLUTION SPECIFICATION SHEET



INTELLIGENCE

WELLBEING

ADDED VALUE

FLEXIBILITY

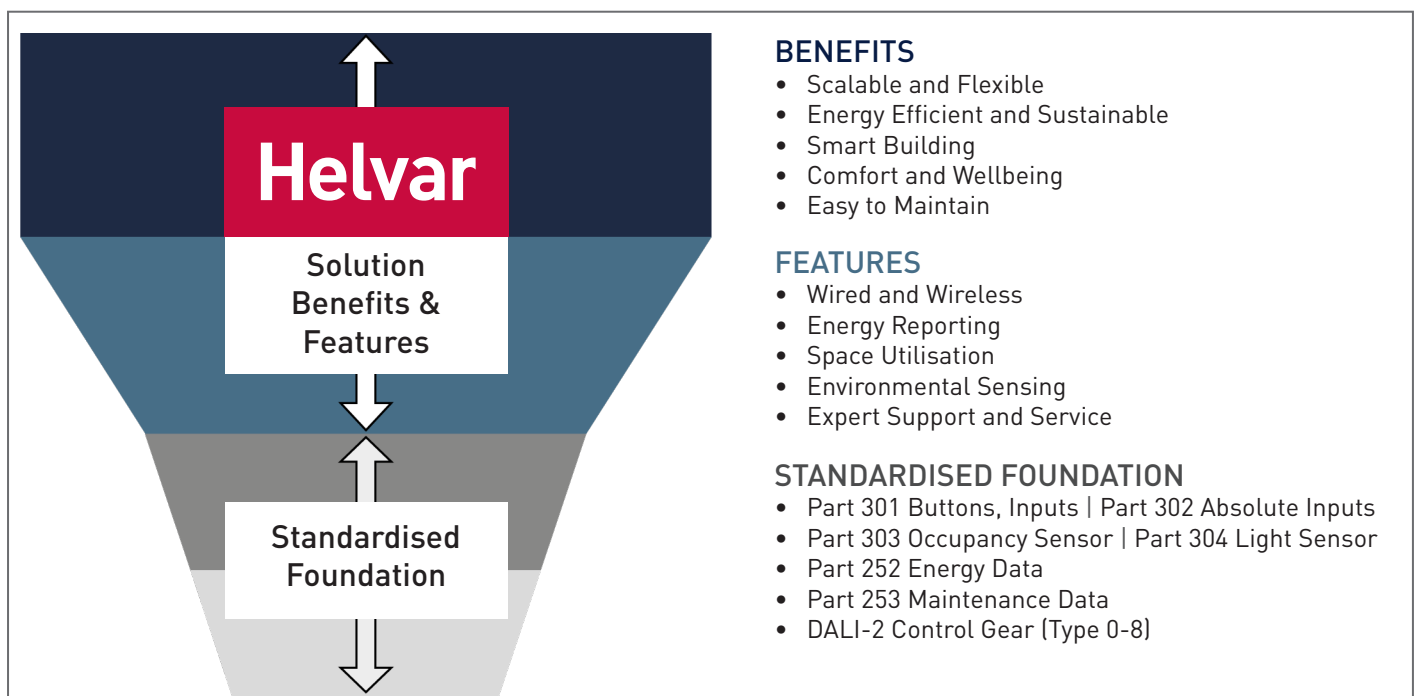
SCALABILITY

CONNECTIVITY

IMAGINE is Helvar's comprehensive DALI-2 solution for lighting control. Built to add value beyond the DALI-2 standard, Imagine provides advanced options for control, automation, and integration, helping to make buildings smarter, more efficient, and future-ready. The Imagine 945 application controller is designed to suit most commercial buildings, while the 950 application controller serves larger, more complex sites.

With one of the broadest DALI-2 portfolios in the market, Helvar's Imagine solution can cover all kinds of project requirements.

With the added possibility of wireless control, environmental sensing and data insights, Helvar's DALI-2 solution offers a robust foundation for buildings to support wellbeing, minimise costs, and reach sustainability goals.



MULTI-MASTER APPLICATION CONTROLLERS



950

- 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
- Up to 15 control devices per DALI network

945

- 2 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
- Up to 15 control devices per DALI network



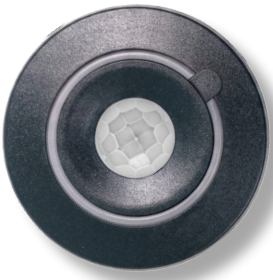
DALI STANDARD IEC 62386 (950 and 945)

Certified DALI-2 Multi-master Application Controller

- Part 101 (System Components)
- Part 103 (Control Devices)
- Part 301 (Push Buttons)
- Part 302 (Absolute Input Devices)
- Part 303 (Occupancy Sensor)
- Part 304 (Light Sensor)
- Part 252 (Energy Data)
- Part 253 (Maintenance Data)



HELVAR 32xD2 SENSORS



320D2 Occupancy Sensor

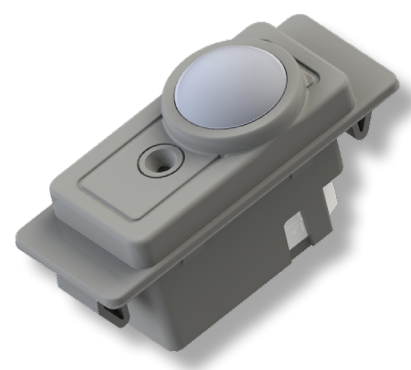
- Application Fit: General Indoor
- Occupancy Sensor
- Occupancy Sensor Technology: PIR
- Nominal Mounting Height: 2.5 m
- Detection Pattern 6.2 x 8 m
- DALI Consumption: 10 mA Max

321D2 Multisensor

- Application Fit: General Indoor
- Occupancy and Light Sensor
- Occupancy Sensor Technology: PIR
- Nominal Mounting Height: 2.5 m
- Detection Pattern 6.2 x 8 m
- DALI Consumption: 10 mA Max

322D2 High Bay Multisensor

- Application Fit: General High Bay
- Occupancy and Light Sensor
- Occupancy Sensor Technology: PIR
- Nominal Mounting Height: 15 m
- Detection Pattern: \varnothing 21 m
- DALI Consumption: 10 mA Max



324D2 Multisensor R44

- Application Fit: Luminaire Mount, General Indoor
- Occupancy and Light Sensor
- Occupancy Sensor Technology: PIR
- Nominal Mounting Height: 2.5 m
- Detection Pattern: \varnothing 7 m
- DALI Consumption: 10 mA Max
- Follows Zhaga Book 20 Standard Dimensions R44

325D2 High Bay Multisensor R60

- Application Fit: Luminaire Mount, General High Bay
- Occupancy and Light Sensor
- Occupancy Sensor Technology: PIR
- Nominal Mounting Height: 15 m
- Detection Pattern: \varnothing 21 m
- DALI Consumption: 10 mA Max
- Follows Zhaga Book 20 Standard Dimensions R60

SENSOR RANGE

HELVAR 34xD2 SENSORS



3430D2 Corridor Multisensor

- Application Fit: Corridor
- Occupancy and Light Sensor
- Occupancy Sensor Technology: PIR
- Nominal Mounting Height: 2.5 m
- Detection Pattern:
 - small movement: 3 x 16 m;
 - large movement: 5 x 40 m
- DALI Consumption: 10 mA Max



3440D2 Wide Range Multisensor

- Application Fit: General Indoor
- Occupancy and Light Sensor
- Occupancy Sensor Technology: PIR
- Nominal Mounting Height: 2.5 m
- Detection Pattern: \varnothing 24 m
- DALI Consumption: 10 mA Max



SENSOR RANGE COMPARISON CHART

Sensor	Application Fit	Nominal Mounting Height	Detection Range	Features
320D2	General Indoor	2.5 m	6.2 x 8 m	Standard detection area: <ul style="list-style-type: none"> - Improved energy efficiency - Granular space utilisation data for analytics and integration - Flexible to space layout changes
321D2	General Indoor	2.5 m	6.2 x 8 m	
322D2	General High Bay	15 m	\varnothing 21 m	
324D2	Luminaire Mount, General Indoor	2.5 m	\varnothing 7 m	
325D2	Luminaire Mount, General High Bay	15 m	\varnothing 21 m	
3430D2	Corridor	2.5 m	Movement: small: 3 x 16 m large: 5 x 40 m	Larger detection area: <ul style="list-style-type: none"> - Good detection performance for high traffic, uniform spaces - Faster installation time
3440D2	General Indoor	2.5 m	\varnothing 24 m	

STEINEL SENSORS FOR HELVAR



IR Quattro HD Multisensor

- Application Fit: Large Open Plan
- Occupancy and Light Sensor
- Occupancy Sensor Technology: PIR
- Nominal Mounting Height: 2.8 m
- Large movement detection: 20 x 20 m
- DALI Consumption: 8 mA Nominal

HF 360 Multisensor

- Application Fit: Open plan areas with separators, Stairwells, WCs
- Occupancy and Light Sensor
- Occupancy Sensor Technology: HF, 5.8 GHz
- Nominal Mounting Height: 2.5 m
- Detection pattern: \varnothing 12 m
- DALI Consumption: 10 mA Nominal

Dual HF Multisensor

- Application Fit: Corridors
- Occupancy and Light Sensor
- Occupancy Sensor Technology: HF, 5.8 GHz
- Nominal Mounting Height: 2.8 m
- Detection pattern: 20 x 3 m
- DALI Consumption: 14 mA Nominal



IS 3360 MX High Bay Multisensor

- Application Fit: Open Plan High Bay
- Occupancy and Light Sensor
- Occupancy Sensor Technology: PIR
- Nominal Mounting Height: 12 m
- Large movement detection: \varnothing 36 m
- DALI Consumption: 6 mA Nominal

IS 345 MX High Bay Multisensor

- Application Fit: Aisle High Bay
- Occupancy and Light Sensor
- Occupancy Sensor Technology: PIR
- Nominal Mounting Height: 12 m
- Large movement detection: 30 x 4 m
- DALI Consumption: 6 mA Nominal

BUTTON PANEL DEVICE RANGE



13xD2 BUTTON PANEL and 11xD2 SLIDER RANGE

- Choice of 6 button module configurations and single or dual slider options
- Choice of anthracite grey (B) or white (W) modules
- Available frame finishes: white plastic, anthracite grey plastic, stainless steel, white metal and polished brass
- Designed to fit DIN and UK standard back boxes
- DALI Consumption: 10 mA Max

14xD2 BUTTON PANEL RANGE

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



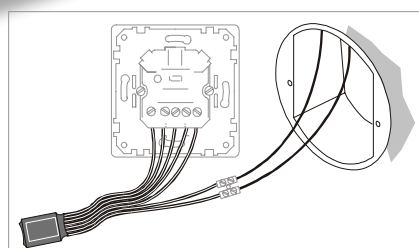
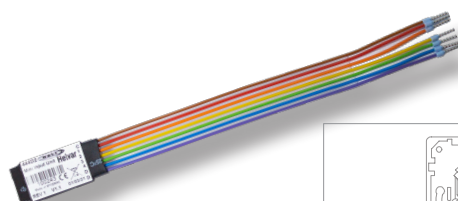
Compatible frame examples from Alternative Manufacturers*

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



*not supplied by Helvar

INPUT DEVICE

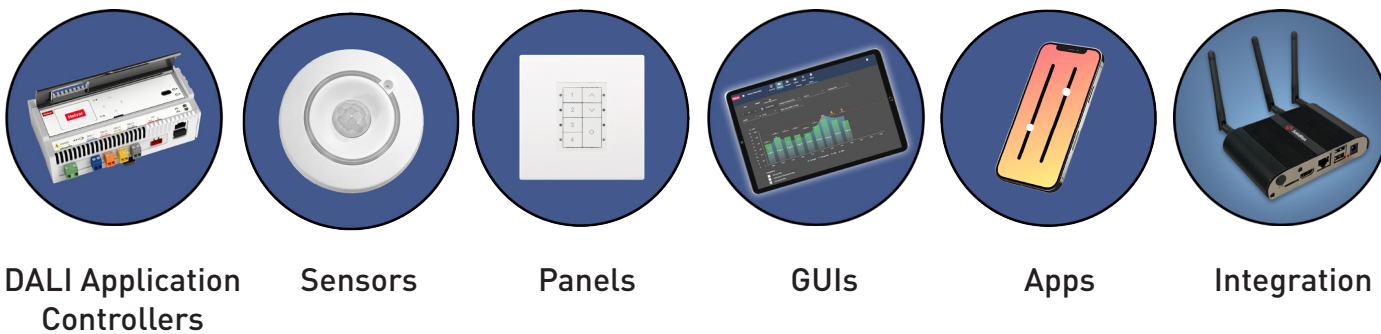


A Mini Input Unit used with a four-gang mains switch in a single-gang back box

444D2 MINI INPUT DEVICE

- 4 Digital Inputs
- Fits into all standard size back boxes and architrave style back boxes
- Touch dimming with a momentary push switch
- Can be used with momentary or latching switches
- DALI Consumption: 10 mA Max

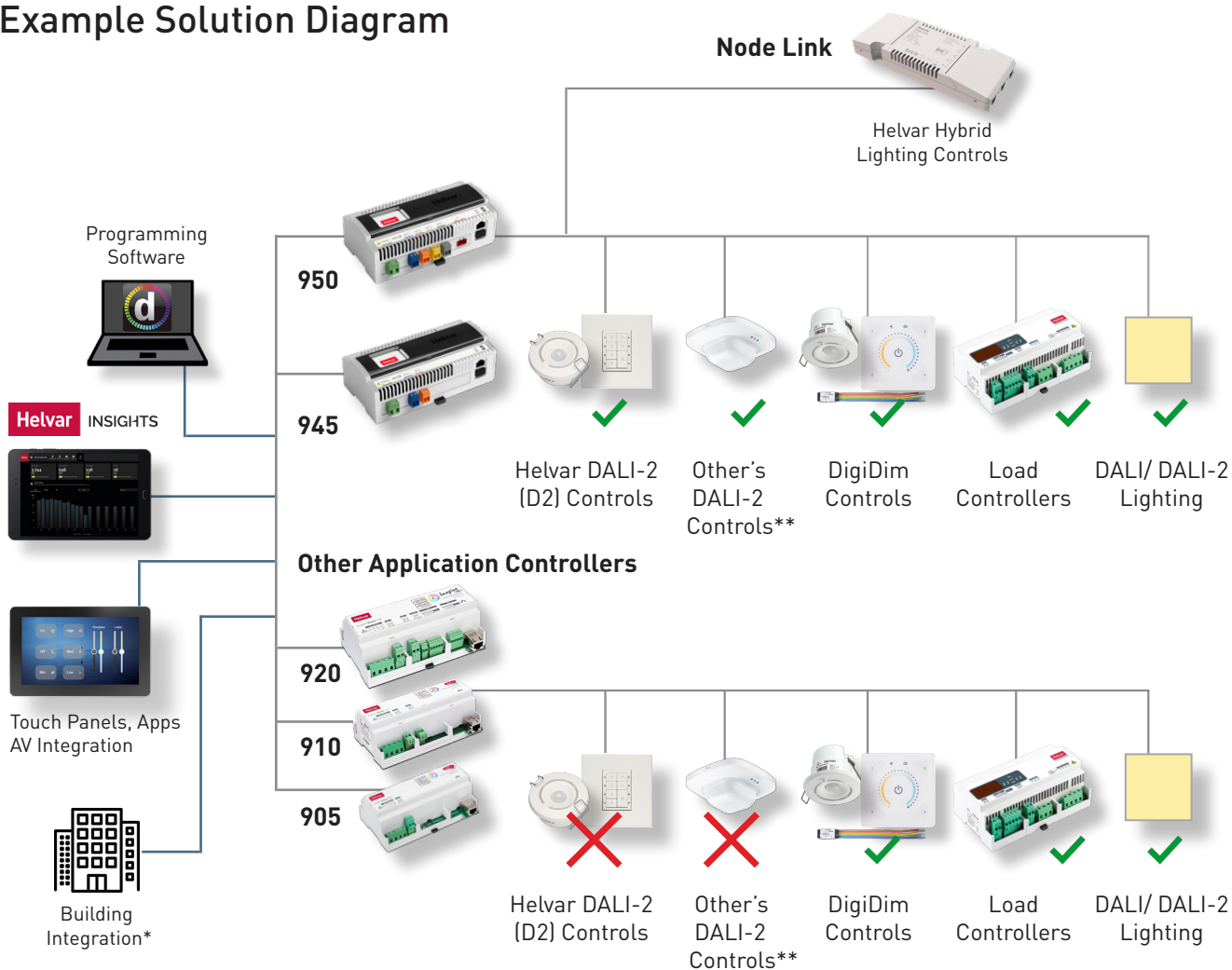
KEY SOLUTION COMPONENTS



DALI-2 COMPATIBILITY WITH OTHER SOLUTION COMPONENTS











Helvar IMAGINE

Example Solution Diagram



* Gateways required ** Product dependent, ask local Helvar representative

DALI-2 COMPATIBILITY WITH OTHER SOLUTION COMPONENTS

		Helvar Application Controllers		Helvar ActiveAhead Nodes	
		Helvar IMAGINE		Helvar ACTIVEAHEAD	
		950  945 	905  910  920 	5609  5640  5641 	 Nodes D4i
Product Classifications		DALI-2 Multi Master Application Controllers	DALI-2 Single Master Application Controllers	Multi Master Application Controllers	D4i Control Devices for Luminaires
DALI Control Gear (i.e. luminaires)		✓	✓	✓	✓
DALI-2 Control Gear (i.e. luminaires)		✓	✓	✓	✓
DIGIDIM Helvar Control Devices		✓	✓	✓	✓
D2 Helvar DALI-2 Control Devices		✓	✗	✓	✓
Sensors					
DIGIDIM Helvar Sensors (e.g.: 320, 321, 322, 313, 314, 315, 317, 318)		✓	✓	✓ 32x & 34x	✓ 32x & 34x
D2 Helvar DALI-2 Sensors (e.g.: 320D2, 321D2, 322D2)		✓	✗	✓	✓
Steinel DALI-2 Sensors from Helvar (e.g.: IR Quattro HD Input device)		✓	✗	✓	✓
Button Panels and Inputs					
DIGIDIM Helvar Panels (e.g.: 13x, 16x, 19x ILLUSTRIS, 444)		✓	✓	✗	✗
D2 Helvar DALI-2 Panels and Inputs (e.g.: 13xD2, 14xD2, 444D2)		✓	✗	✓	✓
Load controllers					
DIGIDIM Helvar Dimmers, Relays and Ballast Controllers (e.g.: 454, 478, 498)		✓	✓	✓	✗
Non Helvar DALI-2 controls (by other manufacturers)					
Only DALI-2 certified products and approved for compatibility by Helvar		Product dependent, ask local Helvar representative	✗	Product dependent, ask local Helvar representative	Product dependent, ask local Helvar representative
D4i Drivers and DALI Power Supplies					
D4i Drivers with bus power supply ON (typically on out of box)		✗	✗	✗	✓
Additional DALI Power Supplies (e.g.: Helvar 402, 407)		✗	✗	✗	✓
DALI Repeater (e.g.: Helvar 405, 406)		✓ max 1 per subnet	✓ See repeater manual for best install practise	✓	✗

We're based in Finland, Sweden, UK and Poland - but we work with Partners all over the world. See more at helvar.com

Read more about Helvar Imagine solution: helvar.com/imagine
Data is subject to change without notice.

