Imagine

Helvar

freedom in lighting

Input Unit (942)

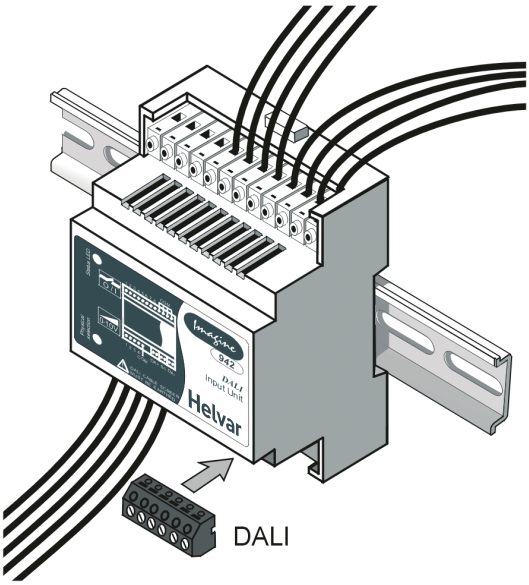
The Input Unit is an interface designed to allow customer-specified switches, sensors, time clocks or other on/off control devices to be incorporated into a DIGIDIM or an Imagine lighting control system. It also accepts inputs from 0–10 V analogue devices.

The unit has eight volt-free switch inputs that can be either momentary or latching. The resulting action of the input is programmable using Toolbox and Designer software, and the inputs can be used as logical conditions.

Inputs 1–4 can be configured also as 0–10 V analogue inputs, permitting, for example, the connection of light sensors to act as scene triggers or condition inputs. The analogue inputs require an externally sourced dc voltage in the range of 0 V – 10 V, and they are applicable only when the Input Unit is used in a lighting router system.

Key Features

- Status LED gives visual indication of the unit's current operational mode: normal operation, initialisation, physical selection, or input activation.
- Physical selection switch.
- Can be used with momentary or latching switches, 0–10 V analogue devices and time clocks.



Technical Data

Voltage-free switched inputs

Connections:	1–8 inputs (active low) COM: input ground
Voltage on pins 1–8:	5 V nominal with switch open, must be less than 2 V switch closed.
Overvoltage protection:	± 35 V
Short-circuit current:	0.5 mA maximum
Debounce period:	50 ms

Analogue inputs

Analogue connections:	1–4 inputs COM input ground
Input range:	0 V – 10 V
Overvoltage protection:	± 15 V
Input impedance:	7.5 kΩ
Settling time:	10 ms
Response time:	50 ms

Power

Power supply:	Powered from the DALI bus
Consumption:	10 mA

Operating conditions

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

Mechanical data

Dimensions:	70 mm × 90 mm × 58 mm
Mounting:	DIN rail (installation in switchgear/controlgear cabinet)
Weight:	110 g

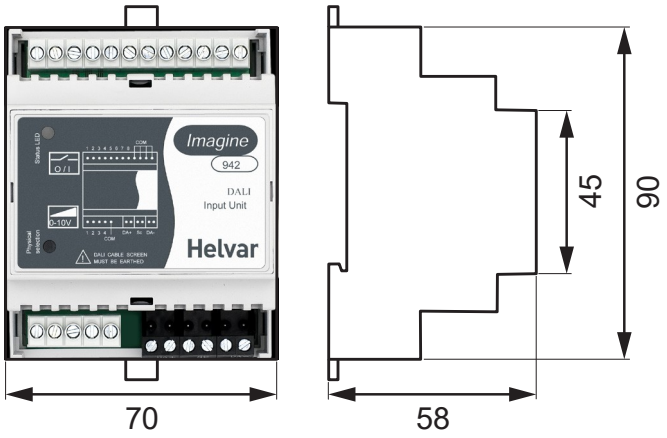
Conformity and standards

EMC emission:	EN 55015
EMC immunity:	EN 61547
Safety:	EN 61347-2-11
Case IP code:	IP30
Terminal IP code:	IP00
Isolation:	3 kV DALI to inputs

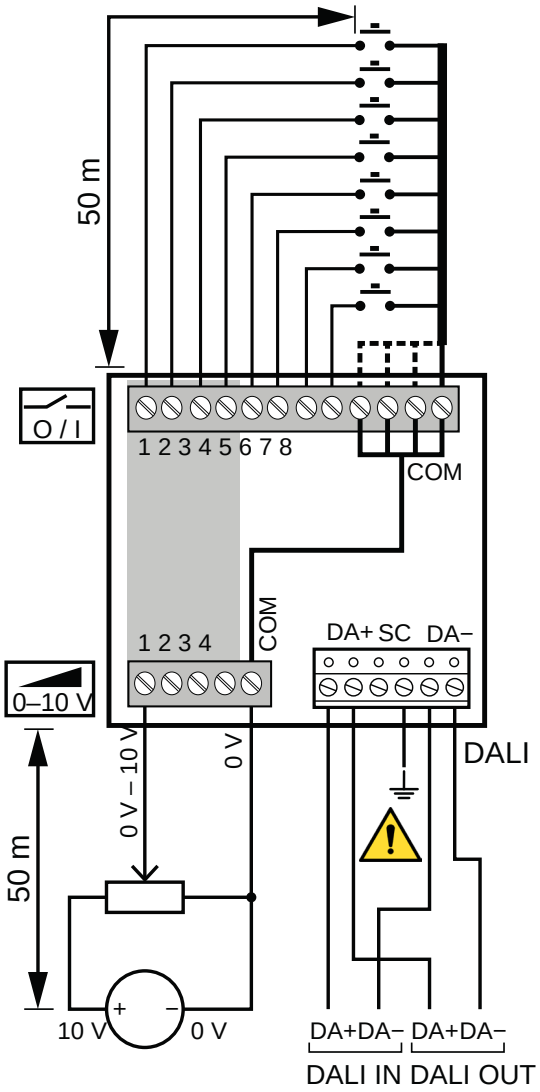
Software compatibility

Designer:	All versions
Toolbox:	2.4.1 or later

Dimensions (mm)



Connections



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