Lunatone

DALI Jalousie

Datasheet
Interface

DALI module to control jalousie modules with 230V ~ control inputs for Up and Down

Art. 86458676-DE (remote ceiling)
Art. 86458676-HS (DIN rail)

DALI Jalousie Interface

Overview

- Suitable for the control of blind modules with separate 230V input for Up and Down via DALI

- interlocked outputs

- for currents of up to 4A

- the module is controlled by the DALI-commands RECALL MAX or UP for Up and RECALL MIN or DOWN for Down, the state holds until an OFF is received

- The module is supplied directly via the DALI line, no additional supply required

- The interface has a DALI address and can be added to groups, there are 4 programmable profiles for adjusting the tilt angle and to open or close the blinds.

Specification, Characteristics

Type	DALI Jalousie	
article number	86458676-HS	86458676-DE

electrical data	
power supply	via DALI
typ. current consumption	5.5 mA
control input	DALI
Input (voltage and frequency)	120/240VAC 50/60Hz
output	120/240V (Up or Down, interlocked)
relay contact switching voltage	250Vac
nominal load and current	1000VA / 4A
operating cycles with 4A/250Vac, resistive	10^5
max. switching frequency relay	0.2 Hz

input: DA,DA	
input type	DALI control input
marking terminals	DA, DA
voltage range	9,5Vdc … 22,5Vdc (according to IEC62386)
DALI address	1
DALI-2 address	none

general data		
mounting	DIN rail	remote ceiling
dimensions	98mm x 17.5mm x 56mm	120mm x 30mm x 21mm
rated max. temperature tc	75°C	
protection class	II in intended use	
protection degree housing	IP40	
protection degree terminals	IP20	

environmental conditions

storing / transportation temperature	-20°C … +75°C
operational ambient temperature	-20°C … +60°C
rel. humidity, none condensing	15% … 90%

terminals

connection type	screw connector	spring terminal connector
wire size solid core	0,5 … 2,5 mm2 (AWG20 … AWG14	0,5 … 1,5 mm^2 (AWG20 … AWG16)
wire size fine wired	0,5 … 2,5 mm2 (AWG20 … AWG14)	0,5 … 1,5 mm^2 (AWG20 … AWG16)
wire size using wire end ferrule	0,25 … 1,5 mm2	0,25 … 1 mm^2
stripping length	7 mm / 0,27 inch	8,5 … 9,5mm / 0,33 … 0,37inch
locking torque	0,5 Nm	-
release of wire	open screw	push button

standards

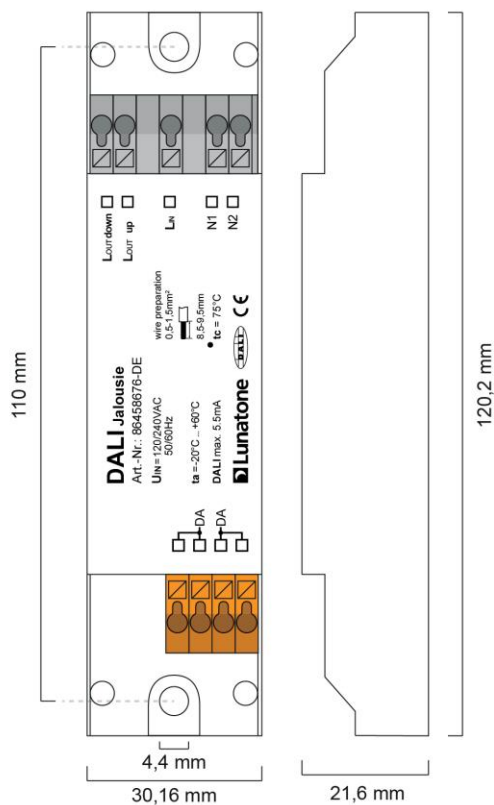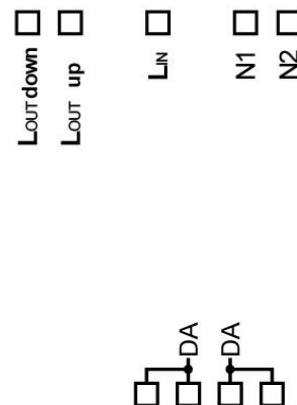| DALI	EN 62386-101	
EMV	EN 61547, EN 50015 / IEC CISPR15	
Safety	EN 61347-2-11, EN 61347-1	
markings	CE, UKCA	CE
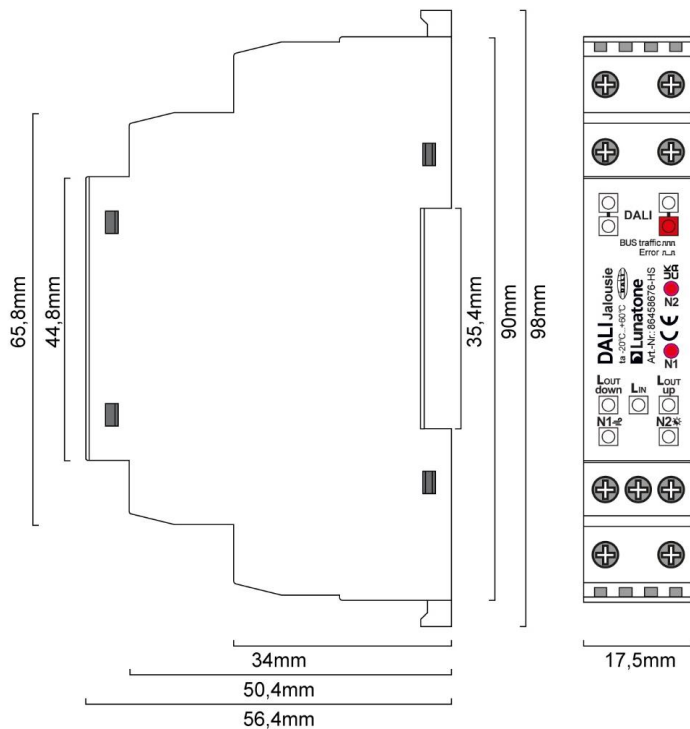
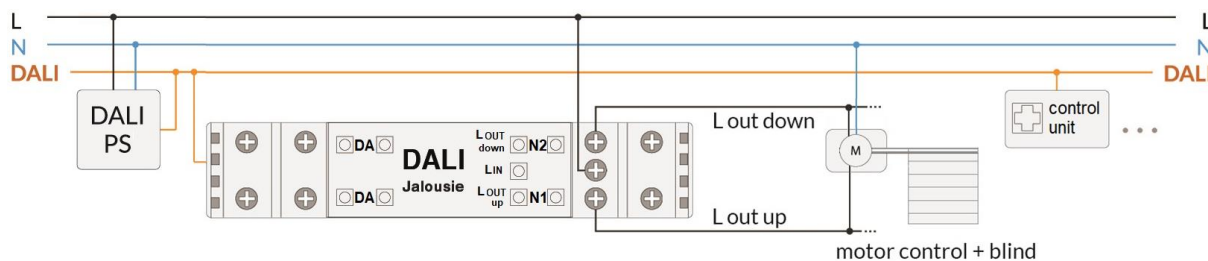Geometry DIN rail type   Connection DIN rail type

Geometry remote ceiling type

Connection remote ceiling type

Typical Application

typical application - module DALI Jalousie

Factory Default Settings

On delivery DALI Jalousie module reacts to commands: MAX, MIN, OFF, UP, DOWN to its own DALI address. The module does not respond to broadcast DALI control commands (configuration of groups (assign/unassign a group) is possible broadcast). The DALI Jalousie scene behaviour is deactivated on delivery. The device configuration can be changed via the [DALI Cockpit](link) and adapted to the current application.

Installation

- The DALI Jalousie module is directly connected and supplied by the DALI bus, no additional power supply is required. A DALI bus power supply (e.g. DALI PS) is required. The typical current consumption of the DALI Jalousie module is approx. 5.5 mA

- The connection to the DALI terminals can be made regardless of polarity.

- The module is designed for a continuous load of 1000VA.

- N1: switching input for wind sensor
  N2: switching input for light sensor

- The wiring should be carried out as a permanent installation in a dry and clean environment.

- Installation may only be carried out in a voltage-free state of the system and by qualified specialists.

- National regulations for setting up electrical systems must be followed.

- The DALI wiring can be realised with standard low-voltage installation material. No special cables are required.

- Only 1 wire may be connected to each terminal. When using double wire end ferrules, the connection capacity of the terminal must be considered.

Attention: The DALI-signal is not classified as SELV circuit (Safety Extra Low Voltage). Therefore, the installation regulations for low voltage apply.

The voltage drop on the DALI line must not exceed 2V at maximum length (300m) and maximum bus load (250mA).

Addressing and Configuration

- After installation, the device can be used with the default factory settings.

- Addressing and changes to the factory settings, such as setting the effective range and functions, are possible with the DALI Cockpit Software (Windows PC).

- When using the DALI Cockpit Software, the PC must be connected to the DALI bus via a suitable interface module (DALI-2 USB; DALI USB, DALI-2 WLAN, DALI-2 Display, DALI-2 IoT, DALI 4Net, DALI SCI RS232). The DALI Jalousie module is automatically recognised by the DALI Cockpit during the addressing process and listed in the device overview. On selection the device configuration can be made.

- For localisation the DALI Jalousie can be controlled. Alternatively, the serial number attached to the device, is visible in the DALI Cockpit section "device info".

Function

The DALI Jalousie can be controlled by the assigned DALI address. It converts DALI commands in up/down commands to the blind motor control. The 230V motor control signals (for up and down) are interlocked, that means that at any time only one of those signals is applied to the blind motor.

Reaction of the module to DALI-commands:

| DALI-command	Jalousie control signal	Lout-up	Lout-down
RECALL MAX	UP	230V	0V
RECALL MIN	DOWN	0V	230V
OFF	OFF	0V	0V
UP	UP	230V	0V
DOWN	DOWN	0V	230V
GOTO SCENE X	4 scene commands can be used for the recall of custom profiles (direction and duration can be configured for each profile)		

For a customized adjustment of the module to the used jalousie 4 freely programmable profiles are available. They can be configured with the help of the DALI-Cockpit software tool.

For each profile the direction (UP or DOWN) can be as well configured as the duration how long this state should be applied. With the help of these profiles typically the tilt angle (min/max) and a complete Up and Down movement can be preconfigured.
To use these profiles, each needs to be activated by selecting the checkbox "Enable".

To recall the profiles scene commands are used .- a scene command can be assigned to each profile:
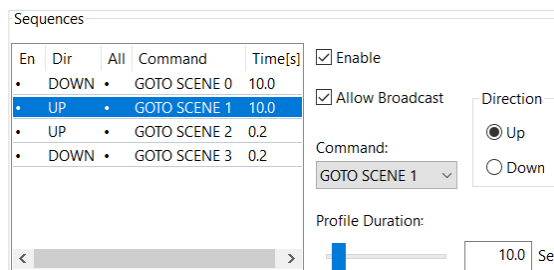
The DALI Jalousie interface does not react to broadcast commands in factory default state. However for the recall of profiles this restriction can be removed by selecting the checkbox "Allow Broadcast".
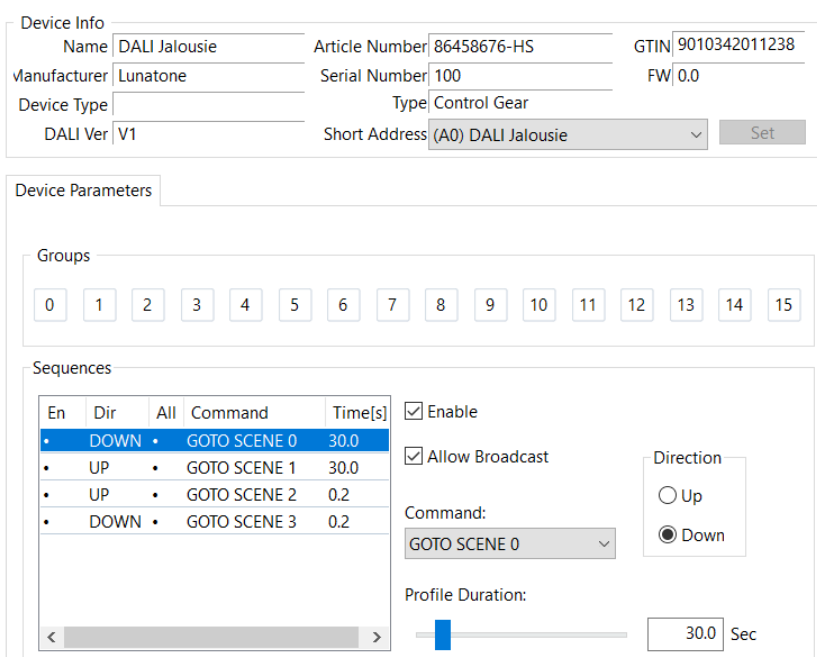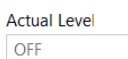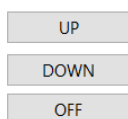
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Purchase Information

Art.Nr. 86458676-HS   DALI Jalousie, DIN rail
Art.Nr. 86458676-DE   DALI Jalousie, remote
ceiling

Additional Information and Equipment

DALI-Cockpit – free configuration tool from
Lunatone for DALI systems
https://www.lunatone.com/en/product/dali-cockpit/

Lunatone DALI products
https://www.lunatone.com/en/

Lunatone datasheets and manuals
https://www.lunatone.com/en/downloads-a-z/

Contact

Technical Support: support@lunatone.com

Requests: sales@lunatone.com

www.lunatone.com

Disclaimer

Subject to change. Information provided without guarantee.
The datasheet refers to the current delivery.

The compatibility with other devices must be tested in advance
to the installation.