



## DALI module

### General

The ISYGLT-DALI-08B module controls electronic ballasts for fluorescent lamps and electronic transformers which communicate with the DALI protocol. A DALI BUS can operate up to 64 DALI electronic ballasts. Each of these 64 DALI communication entities (electronic ballasts or electronic transformers) must be programmed with a unique appliance address (DALI short address). Each appliance address can be assigned one of eight ISYGLT dimming groups in up to three configurations (setups) by parameterising the DALI-08B module. These dimming groups have all the properties available in the ISYGLT system with regard to storing scenes, calculating fade times etc. The three possible configurations (parameter table with DALI short address and respective ISYGLT group number) can be permanently set by means of parameterisation or altered online whilst the system is in operation, e.g. according to the position of parti-

ons in conference rooms or how multipurpose rooms are used. If you want to set a configuration online, write the required configuration number (0,1 or 2) into the digital output byte of the DALI-08B module. The DALI-08B module reprograms the group membership of all DALI bus sharing units each time their configuration number is changed. The module is fitted with its own mains supply. This enables a freely configurable emergency function for the relevant DALI BUS. All DALI output appliances are fully integrated into the possibilities of the ISY-GLT system thanks to our concept, which considerably exceeds the capability of the DALI protocol.

### In- / Outputs

- 1 DALI-BUS

### Function displays

● 1 x LED (red)	<b>LED status</b>	<b>Significance</b>
	OFF	no operating voltage
● 1 x LED (yellow) Operating voltage / BUS	ON	Operating voltage no error.
	<b>LED status</b>	<b>Significance</b>
	OFF	no bus signal detected
● 2 x LED (green)	ON	Bus signal detected own address is not recognised
	Steady flashing	BUS signal and own module address detected
	<b>LED status</b>	<b>Significance</b>
● D1 and D2 flash alternately	D1 and D2 flash alternately	No parameter data in module
● D1 ON, D2 OFF	D1 ON, D2 OFF	module works only as DALI mains adapter

### Connections

- 1 voltage connection 230V / 50Hz
- 2 outputs DALI-BUS
- 1 connection for the subnet (BUS A und B, RS-485)

### Design

- Light grey plastic, can be snapped onto 35 mm DIN rail mounting 6 separating units

### Special function DIP switch

DIP switch 8-pole

- S1 OFF = normal mode, ON = appliance works only as mains adapter at DALI end (from version 1.01) i.e. no DALI commands are sent. Required, for example, for addressing by external systems. S2 to S8 module address ISYGLT

### Parameterisation

The ISYGLT ProgrammDesigner offers various parameterisation options.

- Groups the individual electronic ballasts
- Can save 3 configurations
- Determines the switching on behaviour
- Fade times
- Emergency mode in the event of DALI and ISYGLT bus failure
- The following table contains detailed information about these options:

Please note:

- 1st column = parameter tab
- 2nd column = setting (function)
- 3rd column = description of the parameter to be set
- 4th column = possible setting (default values are in ***bold italics***)

Tab	Setting	Parameter	Value
Basic settings	Basic settings	Active Adr.- configuration	Online via Ax <b><i>Conf. 0 fixed</i></b> Conf. 1 fixed Conf. 2 fixed External Conf.

Tab	Setting	Parameter	Value
	Speed interpretation	Speed value means (Speed value means the specified fade time always refers to the time from 0-100% e.g. 10s. Dimming always occurs at the same speed, which means that dimming from 50-100 only takes 5 seconds. This is the default setting which should always be set except for light sequence controls (multiscene)). (Speed value time means the specified fade time is always calculated absolutely. If 10s is specified the change from 0-100% will take 10s. The change from 90-100% will also take 10s. This setting should be used for light sequence control (multiscene).)	<b>Speed</b> time
Dali	Minimum Level offset	Min level group 1	<b>1 #</b> (1-200)
		Min level group 2	<b>1 #</b> (1-200)
		Min level group 3	<b>1 #</b> (1-200)
		Min level group 4	<b>1 #</b> (1-200)
		Min level group 5	<b>1 #</b> (1-200)
		Min level group 6	<b>1 #</b> (1-200)
		Min level group 7	<b>1 #</b> (1-200)
		Min level group 8	<b>1 #</b> (1-200)
	Special functions	Switch off function with (Command 0 „OFF“ means that when dimming is above DALI level 254 ->0 instead of 0 a real OFF command is sent because some electronic ballasts (e.g. Tridonic) do not switch off at DALI level 0 if their memory contains a fade time greater than zero).	<b>Command 0 „OFF“</b> direct ARC power 0
		Issue Engaging pause 200ms cyclically (When operating Tridonic „One for All“ appliances a pause must be sent from time to time in the data log because these appliances automatically detect the type of control signal connected and required time to engage. The usual pause between the DALI data blocks of 9.1 ms is not enough).	<b>OFF</b> <b>ON</b>
		FADETIME (appliance) fade Config.	<b>4,0s</b> (0-90,5s)
		FADETIME (appliance) standard mode	<b>1,0s</b> (0-90,5s)
	Update setup	DALI setup after parameterisation	<b>ON / OUT</b>
		DALI setup after RESET	<b>ON / OUT</b>

<b>Tab</b>	<b>Setting</b>	<b>Parameter</b>	<b>Value</b>
	DALI appliance setup arter RESET parameterisation	RESET min. - max. levels	<b>ON</b> / OUT
		DALI failure level	<b>0-254</b>
		DALI power-on level	<b>0-254</b>
Adr. Config. 0	DALI address configuration 0	DALI address 0 -> group	<b>1</b> (no, 1-8)
		DALI address 1 -> group	<b>2</b> (no, 1-8)
		DALI address 2 -> group	<b>3</b> (no, 1-8)
		DALI address 3 -> group	<b>4</b> (no, 1-8)
		DALI address 4 -> group	<b>5</b> (no, 1-8)
		DALI address 5 -> group	<b>6</b> (no, 1-8)
		DALI address 6 -> group	<b>7</b> (no, 1-8)
		DALI address 7 -> group	<b>8</b> (no, 1-8)
		DALI address 8 - 63 -> group	<b>no</b> (no, 1-8)
Adr. Config. 1	DALI address configuration 1	DALI address 0 -> group	<b>8</b> (no, 1-8)
		DALI address 1 -> group	<b>7</b> (no, 1-8)
		DALI address 2 -> group	<b>6</b> (no, 1-8)
		DALI address 3 -> group	<b>5</b> (no, 1-8)
		DALI address 4 -> group	<b>4</b> (no, 1-8)
		DALI address 5 -> group	<b>3</b> (no, 1-8)
		DALI address 6 -> group	<b>2</b> (no, 1-8)
		DALI address 7 -> group	<b>1</b> (no, 1-8)
		DALI address 8 - 63 -> group	<b>no</b> (no, 1-8)
Adr. Config. 2	DALI address configuration 2	DALI address 0 -> group	<b>5</b> (no, 1-8)
		DALI address 1 -> group	<b>6</b> (no, 1-8)
		DALI address 2 -> group	<b>7</b> (no, 1-8)
		DALI address 3 -> group	<b>8</b> (no, 1-8)
		DALI address 4 -> group	<b>1</b> (no, 1-8)
		DALI address 5 -> group	<b>2</b> (no, 1-8)
		DALI address 6 -> group	<b>3</b> (no, 1-8)
		DALI address 7 -> group	<b>4</b> (no, 1-8)
		DALI address 8 - 63 -> group	<b>no</b> (no, 1-8)
Emergency operation	(always Config. 0)		

Tab	Setting	Parameter	Value
	ISYGLT BUS timeout	BUS failure detection. (The time for detecting a BUS failure is stated here in seconds. This should be set as slightly longer than the programming time of the master module.)	<b>25s</b> (5 to 255 sec.)
		Action after BUS failure group 1 (Setting (for each channel) to be implemented after the BUS failure is detected	<b>no change</b> 0% 20% 50% 80% 100% Poti 1 (option) Poti 2 (option)
		Action after BUS failure group 2-8	same as group 1
	Poti mode (option)	Poti mode group 1 (option)	never Potentiometer 1 > 0 Potentiometer 2 > 0 Potentiometer 1 Potentiometer 2
		Poti mode group 2-8	same as group 1

The parameters are transferred to the module via the BUS cable and permanently stored in the module.

## Technical data

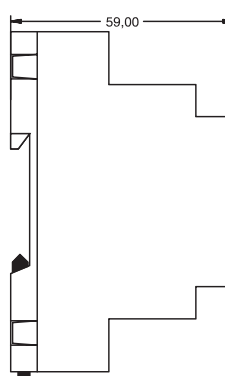
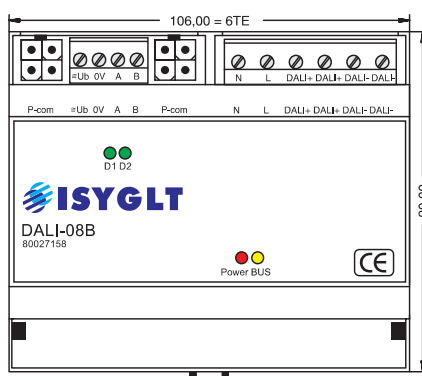
<b>Type</b>	<b>DALI-08B</b>
Art. Nr.	80027158
Power supply	230V / 50-60 Hz
Current consumption	15mA
Isulation voltage	3500V (ISYGLT, DALI / net)
Safety	EN 60669-T1+2 (IEC 60669-T1+2)
RFI	EN 55015, EN 50082-T1, EN 55103-T2
Subnet (RS-485)	max. 5,6V limited by Z-diodes
Dimensions	BxHxT 106x90x59mm (6 TE)
Weight	300 g
Connections	Screw terminals 1,5mm <sup>2</sup> pluggable
Operating temperature	-10...+50°C
Storage temperature	-25...+70 °C
Humidity	0...85 % r.F. non condensing
Protection grade	IP 30
Protection class	I
ESD immunity	Category 3 according to IEC-1000-4-2
EMV immunity	Use in typical industrial enviroment. Category 3 according to IEC-1000-4-4 (Test was carried out within a whole system)
CE sign	yes

## Terminal assignment

4 pole connector (left)	
≅ U	Operating voltage (free)
0V	0V Operating voltage (free)
A	Subnet (BUS A, RS-485)
B	Subnet (BUS B, RS-485)

6 polie connector (right)	
N	Neutral conductor
L	Mains voltage 230V (50-60Hz)
DALI+	DALI Bus +
DALI+	DALI Bus +
DALI-	DALI Bus -
DALI-	DALI Bus -

## View



**Wiring diagram**

