

Connection

1. Physical address label
2. KNX programming key
3. Red KNX programming led
4. KNX connection terminal
5. DALI output
6. Operating voltage and neutral
7. Operating Led, Green
8. DALI Status Led, Yellow
9. Manual Led, Red
10. Manual Button
11. Test Button

Description of the Device

DALI Gateway operates as an interface between KNX bus and DALI bus system. DALI line power supply is integrated in the device. DA100 with emergency lighting function is used to control up to 64 normal DALI operating devices. (E.g. electronic ballasts, LED ballasts, transformers etc.) Also it is possible to connect a maximum of 8 sensors.

Every DALI slave automatically receives a DALI address through to DALI Gateway. Slaves are immediately ready for control. The fault status of every individual DALI device is sent via different communication objects on the KNX. DALI Gateway DA100 enables to create 16 lighting groups and 64 different scenes. Thanks to EAE DALI Commissioning Tool, it is possible to address DALI slaves and create DALI groups. Constant light and corridor functions can be operated by using DALI Presence Sensor.

With DALI Gateway DA100, it is possible to create a lighting group based on intersection of other lighting groups which are created beforehand. Each group of lights can be addressed and monitored via the KNX.

Normal DALI lamps and battery operated emergency lamps can be connected combined.

Technical Data

Type of protection	IP 20	-EN 60 529
Safety class	II	-EN 61 140
KNX Supply ⁽⁴⁾	-Voltage	21 V... 30 V DC SELV
	-Current Consumption	≤ 10 mA
Main Supply ⁽⁶⁾	-Voltage	85 – 300V AC @50-60 Hz
	-Power Consumption	Max. 8 W
	-Current Consumption	100 mA @85 V AC
DALI Supply ⁽⁵⁾	-Voltage	16 V DC typical
	- Current	Max. 200 mA
	- DALI protocol	EN 62 238
Connections	-Screw Terminals	0,3...2,5mm ² solid and stranded wire
		0,3...1,5mm ² stranded wire with ferrule
	-Max tightening torque	0.5 Nm
	-KNX	Bus connect terminal
Output	-Number of DALI devices	-Max. 64
	-Cable lengths	
	1.5 mm ²	Max. 300 m
	0.75 mm ²	Max. 150 m
	0.5 mm ²	Max. 100 m
Type of contact	- potential-free, bistable	

Installation	- 35mm mounting rail	-EN 60 715
Temperature range	Ambient	-5° C + 45° C
	Storage	-25° C + 55° C
	Transport	-25° C + 70° C
Humidity	Max. air humidity 95 % no moisture condensation	
Dimensions	70 x W x 91mm	W=69 mm (4 modules)
Weight	0.15 kg	
Box	Plastic, polycarbonate, colour grey	
CE	In accordance with the EMC guideline and low voltage	
Application program	Communications objects	-249
	Number of addresses(max)	-254
	Number of assignments(max)	-255

Operation and Display

-ON-LED⁽⁷⁾: Lights up when device is working properly.

-DALI STATUS-LED⁽⁸⁾

Off: No problem.

On: There is a short circuit on DALI Bus or line voltage (220 v) is connected to DALI Bus.

Flashing Slowly: There is device which has problem on the DALI Bus.

Flashing Quickly: Initialization

-MANUAL-LED⁽⁹⁾: Lights up when manual control is activated.

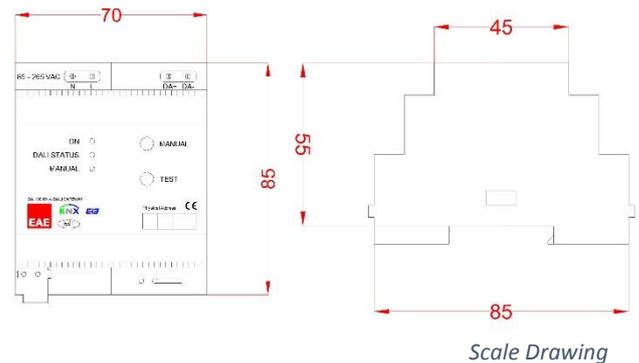
-MANUAL BUTTON⁽¹⁰⁾: Activate/Deactivate manual control. Hold pressed to manual button for 3 seconds to activate manual control.

-TEST BUTTON⁽¹¹⁾: Lights on/off and dims all ballasts when manual is activated.

-PROGRAMMING-LED⁽³⁾: Red led lights up after the programming button pressed.

Installation

Device is compatible for mounting to 35 mm DIN rail EN 60 715.



Connection

KNX Bus must be connected to the KNX connection terminal. Ensure that colour of cables are connected accurate. Load connections are made using screw terminals. Electrical connections are made using screw terminals. Terminal names can be found on the device and user manual.

Commissioning

With EAE DALI Commissioning Tool, assignment of DALI members to light groups can be done easily. Determination of the physical address and setting of parameters are actualized with Engineering Tool Software (ETS3/ETS4 or higher). “.knxprod” file must be imported to the ETS.

i A detailed information about parameter configuration can be found in Product Manual of device.

! Installation and commissioning of device may only be implemented by trained electricians. The relevant standards, directives, regulations and instructions must be observed when planning and implementing the electrical installation.

-When connecting the device make sure that the device can be isolated!
-Protect the device against moisture, dirt and damage during transport, storage and operation!

-Do not operate the device out of the specified technical data which is stated.
-The device may only be operated in closed enclosures (Distribution boards)

Cleaning

If device becomes dirty, only a dry cloth can be used for cleaning. It is not suitable to use wet cloths, caustics and solvents.