KNX DALI Gateway

CE KNX PROHS

Important: Read All Instructions Prior to Installation

Function introduction



Size:90.1x72x66.4

Product Description

The KNX DALI Gateway is a DIN rail module for installation in the distribution board on a 35 mm mounting rail. It is a DALI single-master controller to DALI standard IEC 62386 Parts 101ed2 and 103ed1. The gateway is suitable for use with DALI and DALI-2 systems.

It supports Device Type 6, Device Type 8 Tc, Device Type 8 XY coordinate, Device Type 8 RGB with DALI interfaces to IEC 62386 and their integration in a KNX building installation.

The DALI gateway has 2 channels DALI output. Up to 64 DALI devices can be connected to each DALI output. DT6 and DT8 devices can all be connected to each DALI output in a mixed configuration. The lamps connected to each DALI channels are controlled via KNX using:

- broadcast
- 64 individual lamps
- 16 lighting groups
- 16 scenes

The fault status (lamps or ballasts) of each DALI device or of the lighting group is sent via the KNX bus by a variety of KNX group objects.

The DALI Gateway features the Tunable White (Tc) color function, which allows you to set and dim the color temperature of lamps (DT8). There are also settings options for the additional Human Centric Lighting (HCL) functions.

The DALI Gateway is designed with wide range supply voltage input. Each channel is integrated with a 250mA DALI power supply. No additional DALI power supply is required and wiring is simplified.

DALI commissioning can be executed via DALI Master PC software, and KNX commissioning can be executed via ETS5.

Technical data

Supply	Gateway supply voltage	100-240VAC, 50/60Hz
capp.j	Total current draw from mains	Maximum 48mA
	Total power consumption via mains	Maximum 11W
	KNX Bus voltage	21-30V DC, via the KNX/EIB bus
	KNX current consumption	Maximum 10mA
	Power consumption via KNX	Maximum 210mW
DALI outputs	Number of outputs	2
DALI Outputs	Number of DALI devices	Maximum 64 per output
	Supported device types	DT6, DT8 Tc, DT8 XY coordinate, DT8 RGB
	DALI voltage	Typical 16VDC
	Maximum supply current	2x250mA
Connections	KNX	KNX connection terminal, 0.8 mm Ø, solid
Connections	DALI outputs & mains voltage	Screw terminal, 0.5-2.5 mm Ø, stranded
	Mini USB	USB-A to Mini USB data cable (USB 2.0)
Operation and	KNX Button and red LED	For assigning the physical address
display	KNX Green LED flashing	Indicate the application layer running normally
	DALI red LED on	Indicate DALI fault
	DALI green LED on	Indicate DALI bus running normally
Type of protection	IP 20, EN 60 529	
	Operation	-5 °C+45°C
Temperature	Storage	-25 °C+55°C
	Transport	-25 °C+70°C
Ambient	Humidity	<93%, except dewing
Design	Dimensions	90.1x72x66.4mm
Mounting	On 35mm mounting rail	To EN60715

Application Programming

To program the KNX DALI gateway, DALI part and KNX part need to be programmed separately. To program DALI part, the DALI PC configuration software "**DALI Master**" will be required. To program KNX part, the "**ETS5**" software will be required.

DALI Programming

1. Wiring and Preparation

Do wiring according to the wiring diagram and power on. Download and install the latest DALI PC configuration software "DALI Master", the version should be V1.52 or later.

2. Addressing DALI Devices

Run "**DALI Master**" PC software, and follow operations as shown in the figures below to address DALI devices. The KNX DALI gateway has 2 channels, each channel has to address connected DALI devices separately. Here we take Bus #1 as an example, addressing operation of Bus #2 is the same as Bus #1.

2.1. Once the "DALI Master" PC software is running, the 2 channels DALI will be discovered and shown on the left of the window automatically, then click to choose "Bus #1" on the left as shown in Figure 1.



Figure 1





2.3. The DALI addressing setting window will pop up, if it is totally new installation, just choose "Complete new installation" and tick to choose "Control Gears" and leave other options not chosen, then click on "Next" to start addressing as shown in Figure 3.

DALI Master Kit				
ile DALI Bus Window He	dp			
💋 DALI Master	DeviceInfo		Cycle and HCL planning status	
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• 🧏 Bus #2	Serial., 12991404 - 0040253c - 168	77107 Version 1.2		
	Control Gear Host parameters DALL	Addressing Wizard - start	×	
	ActualLeve	This wizard wille guide you through the steps of initializing addressing devices on the DAU bus.	g and 15 255 0	Set
	MinLeve	O System Extension (search unaddressed devices)	26 254 1	Set
	MaxLeve	Complete new installation (current device list will be		Set
		Keep Group Info		
	PowerOnLeve	Control Gears	255 254	Set
	SystemFailLeve	DALI24 bit Devices	5 255 254	Set
	FadeRat	The addressing willbe done automatically or by means of	14 15 7	Set
	FadeTim	"physical selection" method:		Set
		use 'physical selection' addressing method for luit	minungs 14 13	
	FadeTimeEv	The search for devices may be done 'visible' or with optical feedback from the found devices:	60 64 0 sec	Set
		visible" search for devices	Dimensions	
	Ott		_	Scene 0 *
	Up	Back Next Abort		
	Down	StepDown StepDownAr		Recall

Figure 3

Note: If current installation just adds some control gears to the DALI bus, and previously installed control gears on the DALI bus have already been addressed, and you would like to keep their configuration, just choose "**System Extension**" and tick to choose "**Keep Group Info**" and "**Control Gears**", and leave other options not chosen. Then addressing will only be executed to the newly added control gears.

2.4. The DALI addressing process will start as shown in Figure 4.



Figure 4

4

Note: Please do not click on any button until the addressing is completed.

Figure 2

2.5. Once the window shows "Search for devices finished", addressing is completed, click on "Done" button as shown in Figure 5. Then all control gears on Bus #1 will be listed on the left column of the main window under Bus#1



Figure 5

2.6. For addressing of DALI devices on Bus #2, please refer to the operations of Bus #1.

3. Assigning DALI Devices to DALI Groups

3.1. Click to choose a DALI Device under Bus #1 on the left column of main window, the DALI configuration parameters of this device will be shown on the right side. The configuration item "Member of Groups" is to assign the device to maximum 16 DALI groups. Click on the group number 0-15, the group number background color will change to green, which means the device is assigned to this DALI group. Click the green color group number again, its background color will change to gray, which means the device is removed from this DALI group. As shown in Figure 6, 7, 8 & 9.





Figure 7 DALI Group Configuration for DT8 Tc Device



Figure 8 DALI Group Configuration for DT8 XY Device



Figure 9 DALI Group Configuration for DT8 RGB Device 6

3.2. For DALI group configuration of DALI devices on Bus #2, please refer to the operations of Bus #1.

4. Configuring DALI Scenes of DALI Devices

4.1. Click to choose a DALI Device under Bus #1 on the left column of main window, the DALI configuration parameters of this device will be shown on the right side. The configuration item **"Scene Light Levels**" under **"DALI Parameters**" is to configure maximum 16 DALI scenes of a DALI device. Click to tick the scene numbers, then the scenes can be configured as shown in Figure 10.

4.2. For DT6 device, just brightness level should be set for a DALI scene. After setting the parameter of the scenes, Click on "Write" button on bottom right of the window to write the scenes to the DALI device as shown in Figure 10.



Figure 10 DALI Scene Configuration for DT6 Device



4.3. For DT8 Tc device, brightness level & color temperature should be set for a DALI scene. After setting the parameters of the scenes, Click on "Write" button on bottom right of the window to write the scenes to the DALI device as shown in Figure 11.

4.4. For DT8 XY device, brightness level, X coordinate value and Y coordinate value should be set for a DALI scene. After setting the parameters of the scenes, Click on "Write" button on bottom right of the window to write the scenes to the DALI device as shown in Figure 12.



Figure 12 DALI Scene Configuration for DT8 XY Device

4.5. For DT8 RGB device, brightness level, values of R, G, B (maximum 254) should be set for a DALI scene. After setting the parameters of the scenes, Click on "Write" button on bottom right of the window to write the scenes to the DALI device as shown in Figure 13.

* & Bus #1		Member Of 0	ircups														
		0	1	2	3	4	5	6	7	8	9		. (
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🔻 🛔 Gears Group2 (G2)	Actual Values	2 1	20 %		254	0	0			□ 9 □ 10							
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🌩 DALI DTB XY (A6)	Operating Mode	DALI CONTRI															
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Figure 13 DALI Scene Configuration for DT8 RGB Device

4.6. For DALI scene configuration of DALI devices on Bus #2, please refer to the operations of Bus #1.

Figure 11 DALI Scene Configuration for DT8 Tc Device

KNX Programming

1. Wiring and Preparation

Do wiring according to the wiring diagram and power on. Download and install the "**ETS5**" software. Make sure the DALI programming of the 2 channels DALI has already been done.

2. Import Device & Create Project

2.1. Import device and database, click on "**Catalogs**" on the top, then click on "**Import**" to import the device database as shown in Figure 14.



Figure 14

2.2. Choose and click on the database file of the gateway from the computer as shown in Figure 15.



Figure 15

2.3. Database is imported successfully, click on "OK" button as shown in Figure 16.

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Figure 16

2.4. Creat project, here we take KNX IP interface as an example. Click on "**BUS**" on the top, then click on "**Interfaces**" under "**Connections**" on the left column. The KNX IP interface will be discovered automatically and shown under "**Discovered Interfaces**" as shown in Figure 17.

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Figure 17

2.5. Click to choose the interface under "Current Interface" as shown in Figure 18.

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2.6. Click on "**Overview**" on the top, then click on "**Projects**" and "+" button to create a new project, fill out the information and then click on "**Create Project**" as shown in Figure 19.



Figure 19

2.7. Right click on the created project name on the left, then click on "**Add**" and "**Rooms**" to add a room to the project, fill out the information and then click on "**OK**" button to create the room as shown in Figure 20 & 21.



Figure 20



2.8. Right click on the created room name on the left, then click on "Add" and "Devices" to add a device to the room as shown in Figure 22.

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Figure 22

2.9. Previously imported gateway database will be shown, double click on the imported gateway to add it to the created room as shown in Figure 23. Once it is added to the room, click on the drop down button of the room on the left, you can see the added device, click on it, the device "**Group Objects**", "**Channels**", "**Parameter**" will be shown on the right side of the window.

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Figure 21

Figure 24 12

3. KNX Programming

3.1. Channels

The gateway controls 2 channels DALI: CH1 (Bus #1) & CH2 (Bus #2). Each control channel has General, ECG (each individual control gear), Group, and Scene channels as shown in Figure 25.

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4 SU Office	[]]] CH1 Group		Individual Address	
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3.2. Parameter

The parameter of General, ECG (each individual control gear), and Group of each control channel can be programmed separately. Following is the parameter programming operations of CH1, regarding CH2 parameter programming, please refer to CH1.

3.2.1. CH1 General

Reaction on DALI voltage failure: means reaction when CH1 DALI voltage is lost, drop down and tick a value, available settings: "no change", "max. brightness value", "min. brightness value", "OFF" as shown in Figure 26.



Figure 26

Reaction on lamp voltage recovery: means reaction when voltage of control gears of CH1 is reset, drop down and tick a value, available settings: "no change", "max. brightness value", "min. brightness value", "OFF" as shown in Figure 27.

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Dynamic Folders		Name					
# 🛍 Survicher		Reaction on Dali voltage failure	no change	*	KN9100/DA2-2CH DAU-gateway		
4 🗐 Office	CH1 General	Reaction on Lamp voltage recovery	no change	•	Individual Address		
Trades	Broadcast enabled	Broadcast enabled	no change	-	Description		
	+ CH1 ECG		max. bringness value min. bringness value				
	+ CHI Group		OFF				
	+ CH2 General				Last Modified 2022/10/13 10:18 Last Downloaded -		
	+ CH2 ECG				Serial Number		
	+ CH2 Group				Status		
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Figure 27

Broadcast enabled: this parameter is to set whether to enable the broadcast control of CH1, available settings: "no", "yes", if it is set as "yes", **"All devices turn on value**" needs to be set, available settings are "10%-100%", "min. brightness", "max. brightness", and "last brightness value" as shown in Figure 28.

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Bunder Sunder Sunder Sunder Sunder Sunder Sunder Sunder	- CH1 General	Reaction on Dali voltage failure	no change		KN9100yDA2-2CH DAU-gateway
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	+ CH1 Group	min.brightness 10%			
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15.15.1 ABB IP5/52.1 (192.168.100.222.3671)		111 KN8100/042-20	H DAU-gateway		Last used workspace

3.2.1. CH1 ECG

CH1 ECG parameter means the parameter of the control gears connected to CH1. There are total 64 ECGs ECG01 to ECG64 as shown in Figure 29, 30, the 64 ECGs here mirror the 64 DALI control gears connected to CH1. ECG01 to ECG64 correspond to DALI control gear with address A0 to address A63.

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		ALI-gateway > CH1 ECG > ECG 01			Settings Comments Informatio
Dynamic Folders	1.1.1 KN9100/DA2-2CH D	ALI-gateway > CHI ECG > ECG 01			Name
💼 Sunricher	- CH1 General	Brightness value when turn on	maxbrightness		KN9100;DA2-2CH DAU-gateway
4 🗐 Office	CHI General	Send switch status response	not available		Individual Address
1.1.1 KN9100/DA2-2CH DAU-98	CHI General	Send brightness status response	not available		1.1 . 1 . 2
Č Trades	- CHIECG				Description
		Device Type	D16	*	
	ECG 01				
	ECG 02				Last Modified 2022/10/13 10:27
	ECG 03				Last Downloaded -
	ECG 04				Serial Number -
	ECG 05				Status
	ECG 06				Unknown
	ECG 07				
	ECG 08				
	ECG 09				
	ECG 10				
	BCG 11				
	ECG 12				P Find and Replace
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	ECG 15				Pending Operations
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🛍 Sunricher	ECG 48	Brightness value when turn on	max.brightness		Kht9100/DA2-2CH DAU-gateway
Office I.1.1 KN9100/DA2-2CH DAU-gal	ECG 49	Send switch status response	not available	*	Individual Address
Trades	ECG 50	Send brightness status response	not available	*	Description
	ECG 51	Device Type	DT6	*	
	ECG 52				
	ECG 53				Last Modified 2022/10/13 10:27
	ECG 54				Last Downloaded - Serial Number -
	ECG 55				
	ECG 56				Status Unknown
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	ECG 61				
	ECG 62				P Find and Replace
	ECG 63				Workspaces
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For each ECG, there are several parameters can be set, following is the setting of ECG1 as an example.

Brightness value when turn on: means brightness value when the ECG is turned on, drop down and tick a value, available settings are "10%-100%", "min. brightness", "max. brightness", and "last brightness value" as shown in Figure 31.

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💼 Sunricher	- CH1 General	Brightness value when turn on	max.brightness		KN9100/DA2-2CH DAU-gateway	
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1.1.1 KN9100/DA2-2CH DAU-ga	CH1 General	Send brightness status response	10%		1.1 1 ‡ Park	
R Trades	- CH1ECG		100		Description	
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Figure 31

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Send switch status response: means when to report the switch status of the ECG, drop down and tick a value, available settings are "not available", "only on read request", and "on change of status" as shown in Figure 32.

Send brightness status response: means when to report the brightness status of the ECG, drop down and tick a value, available settings are "not available", "only on read request", and "on change of status" as shown in Figure 33.

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1.1.1 KN9100/DA2-2CH DAU-ga	CH1 General	Send brightness status response	not available		1.1 1 0
🛠 Trades	- CH1ECG	Device Type	not available only on read request on change of status	-	Description
				~	
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	BCG 02				Last Modified 2022/10/13 10:27
	ECG 03				Last Downloaded -
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Figure 33

Device Type: means the device type of the ECG, drop down and tick a value, available settings are "DT6", "CT", "RGB" and "XY" as shown in Figure 34. This parameter should be set according to the device type of the discovered corresponding DALI control gear in DALI programming part. Corresponding DALI device types of the 4 values are as follows:

"DT6" corresponds to "LED Converter" type in DALI Master, "CT" corresponds to "DT8 Tc" type in DALI Master, "RGB" corresponds to "DT8 RGB" type in DALI Master, "XY" corresponds to "DT8 XY" type in DALI Master.

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Trades		Send brightness status response	not available		Description
	- CHIECG	Device Type	D76		
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					Serial Number
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3.2.2. CH1 Group

CH1 Group parameter means the parameter of the groups of CH1. There are total 16 groups 01 to 16 as shown in Figure 35, 36, the 16 groups here mirror the 16 DALI groups of CH1. **Group 01 to Group 16 correspond to DALI group number 0 to 15.**



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Dynamic Folders	1.1.1 KN9100/DA2-2CH DA	ALI-gateway > CHI Group > Group			Name
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Office	CH1 General	- Group 05 - turn on value -	100%		Individual Address
Trades	+ CHI ECG	- Group 06 - turn on value -	100%	•	Description
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Figure 36

For each group, one parameter can be set, following is the setting of Group 01 as an example.

Turn on value: means brightness value when the group is turned on, drop down and tick a value, available settings are "10%-100%", "min. brightness", "max. brightness", and "last brightness value" as shown in Figure 37.



3.3. Group Objects

Group Objects mean the various functions of the gateway. CH1 & CH2 Group Objects can be programmed separately. Following is the Group Objects description of CH1. Regarding CH2 Group Objects, please refer to the description of CH1.

3.3.1. Group Objects of General & Broadcast (As shown in Figure 38)

General Group Objects

Ballast fault number: the number of fault ballasts Lamp fault number: the number of fault lamps Device Count: the number of devices

Broadcast Group Objects

Switching: broadcast switching Relative dimming: broadcast relative dimming Absolute dimming: broadcast absolute dimming Color Temp(K): broadcast color temperature value RGB: broadcast RGB value XY: broadcast XY coordinate value

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< Ka Surricher	24	CH1, Genenral	Lamp fault number	1 byte C T - counter pu_Low	KN9100/DA2-2CH DAU-gateway
4 Sil Office	2 5	CH1 Broadcast	Switching	1bit C - W switch Low	Individual Address
	26	CH1 Broadcast	Relative dimming	4 bit C - W dimming cLow	1.1 1 0
1.1.1 KN9100/DA2-2CH DAU-ga	27	CH1 Broadcast	Absolute dimming	1 byte C - W percentag. Low	
* Trades	≈ ‡ 8	CHI Broadcast	Colour Temp(K)	2 bytes C - W T U absolute c Low	Description
	* \$9	CH1 Broadcast	RGB	3 bytes ⊂ + W + + RGB value Low	
	10	CHI Broadcast	309	6 bytes C - W colour xyY Low	
	211	CH1, Generiral	Device Count	1 byte C T - counter pullow	
	12	CHI ECG 01, Switching	CN/OFF	1 bit C - W switch Low	Last Modified 2022/10/13 10:42
	#2 13	CH1 ECG 01, Status	ON/OFF	1bit C R - T - switch Low	Last Downloaded
	4 214	CH1 ECG 01, Relative dimming	Brighten/Darker	4 bit C + W + + dimming cLow	Serial Number
	# 2 15	CHI ECG 01, Absolute dimming	Absolute dimming	1 byte ⊂ - W percentag. Low	
	16	CH1 ECG 01, Status dimming value	Brightness	1byte C R - T - percentag. Low	Status
	# 2 17	CH1 ECG 01, Failure status	Error code	1 byte ⊂ R - T - counter pu…Low	Unknown
	#2 20	CHI ECG 02, Switching	ON/OFF	1bit C · W · · switch Low	
	# 22	CH1 ECG 02. Relative dimming	Brighten/Darker	4bit C - W dimming c_low	
	# 2 23	CH1 ECG 02, Absolute dimming	Absolute dimming	1 byte C - W percentag. Low	
	¥ 2 5	CHIT ECG 02, Failure status	Error code	1 byte C R - T - counter puLow	
	28	CH1 ECG 03, Switching	CN/OFF	1bit C - W switch Low	
	# 2 30	CHI ECG 03. Relative dimming	Brighteo/Darker	4 bit C - W dimming.cLow	
	#2 31	CH1 ECG 03, Absolute dimming	Absolute dimming	1 byte C - W percentag. Low	
	#2 33	CHIT ECG 03. Failure status	Error code	1 byte ⊂ R - T - counter pu…Low	
	#2 36	CHI ECG 04, Switching	CN/OFF	1bit C - W switch Low	
	4 2 38	CHI ECG 04, Relative dimming	Brighten/Darker	4 bit C - W dimming c_Low	Find and Replace
	82 39	CHI ECG 04, Absolute dimming	Absolute dimming	1 byte C - W percentag. Low	Workspaces
	#2 [41	CHI ECG 04, Failure status	Error code	1 byte C R - T - counter pullow	
	3 44	CH1 ECG 05, Switching	ON/OFF	1bit C - W switch Low	Ø Todo Items
	# 2 46	CHI ECG 05. Relative dimming	Brighten/Darker	4 bit C + W + + dimming c_Low	Pending Operations
	#2147 K	CHI ECG 05. Absolute dimminn	Absolute dimmina	1hute C . W nerrentan Low	
	Group Ob				Undo History
15.15.1 AB8 IP\$/\$2.1 (192.168.100.222.3671)	 11 Nov 	ine	111 KNB100/DA2-3CH DALI-gateway		Last used workspace

3.3.2. Group Objects of ECG

There are total 64 ECGs 01-64, each ECG can be programmed separately. Depending on the ECG device type configured in the parameter of ECG, Group Objects of different device types will be different. Following is the Group Objects of ECG 01 as an example, for other ECGs, please refer to ECG 01.

Note: here the 64 ECGs 01-64 mirror DALI control gears with addresses A0-A63.

If ECG 01 device type parameter is configured as DT6, Group Objects are as shown in Figure 39: Switching: ECG switching Status: ECG on/off status feedback Relative dimming: ECG relative dimming Absolute dimming: ECG absolute dimming Status dimming value: ECG dimming value status feedback Failure status: ECG failure status feedback

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Dynamic Folders	•zi a	CH1. Generical	Ballast fault number	1byte C T - counter pullow ^ Name
Ma Surricher	#7 4	CH1, Genenral	Lamp fault number	1 byte C T - counter pu_Low kholog/Dk2-2CH DkU-antenny
	# 2 15	CH1 Broadcast	Switching	the C W - with low
4 [J] Office	876	CHI #roadcast	Relative dimming	4 bit C + W + + dimmina c. Low Individual Address
1.1.1 KN9100/DA2-2CH D	ALI-ga #27	CHI Broadcast	Absolute dimming	1byte C - W percenteg Low 1.1 1 0
t Trades	• 1 8	CHI Broadcast	Colour Temp(R)	2 bytes C - W T U absolute c. Low Description
	# 2 9	CH1 Broadcast	RGB	3 bytes C - W RS8 value, Low
	a 10	CHI Broadcast	37	6 bytes C - W colour wY Low
	#2 11	CH1. Generical	Device Count	1byte C T - counter ou. Low
	#2 12	CHI ECG 01. Switching	ON/OFF	1 bit C - W switch Low Last Modified 2022/10/13 10:42
	#2 13	CHIT ECG 01, Status	ON/OFF	1bit C R - T - switch Low Last Revended -
	× 14	CH1 ECG 01. Relative dimming	Brighten/Darker	
	#2115	CHI ECG 01. Absolute dimming	Absolute dimming	1 byte C - W - percenteg. Low Serial Number -
	a 16	CH1 ECG 01. Status dimming value	Brightness	1byte C R - T - percentag. Low Status
	#2 17	CHI ECG 01, Failure status	Error code	1 byte C R - T - counter pullow Unknown
	#2 20	CHI ECG 02, Switching	ON/OFF	1bit C + W + + switch Low
	# 7 22	CHI ECG 02, Relative dimming	Brighten/Darker	4bit C - W dimmingcLow
	#2123	CHI ECG 02, Absolute dimming	Absolute dimming	1 byte C - W percentag. Low
	¥2125	CHI ECG 02, Failure status	Error code	1byte C R - T - counter pu_Low
	1 28	CH1 ECG 03, Switching	ON/OFF	1bit C - W switch Low
	#7 30	CHI ECG 03. Relative dimming	Brightes/Darker	4bit C - W dimming cLow
	# 2 31	CH1 ECG 03, Absolute dimming	Absolute dimming	1 byte C - W percentag. Low
	#2 33	CHI ECG 03. Failure status	Error code	1 byte C R - T - counter pullow
	#7 36	CH1 ECG 04, Switching	ON/OFF	1bit C - W switch Low
	8 7 38	CHI ECG 04, Relative dimming	Brighten/Darker	4 bit C + W + + dimming cLow 🔑 Find and Replace
	87 39	CH1 ECG 04, Absolute dimming	Absolute dimming	1byte C - W percentan Low
	#2 41	CHI ECG 04, Failure status	Error code	1byte C R - T - counter pullow Workspaces
	82 44	CH1 ECG 05, Switching	ON/DFF	1bit C - W switch Low (7) Todo Items
	#7 46	CHI ECG 05, Relative dimming	Brighter/Darker	4bt C - W - dimmoc.Low
	#21.47	CHI FCG 05. Absolute dimmino	Absolute dimension	1 hute C - W nerrenten Low V O Pending Operations
	Group (Directs Charmels Parameter		Undo History

If ECG 01 device type parameter is configured as CT, Group Objects are as shown in Figure 40: Switching: ECG switching

Status: ECG on/off status feedback

Relative dimming: ECG relative dimming

Absolute dimming: ECG absolute dimming

Status dimming value: ECG dimming value status feedback

Failure status: ECG failure status feedback

CT, colour temp (K): ECG colour temperature value

CT, colour temp (K), Feedback: ECG colour temperature value feedback

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Dynamic Folders	##[3	CH1, Genenral	Ballast fault number	1 byte C T - counter pullow	Name
 If Surricher 	* 24	CHI, Genenral	Lamp fault number	1 byte C T - counter pullow	KN9100/DA2-2CH DAU-gateway
4 50 Office	st 5	CH1 Broadcast	Switching	1bit C - W switch Low	Individual Address
	10	CHI Broadcast	Relative dimming	4 bit C + W + + dimming c Low	1.1 1 ‡ Park
1.1.1 KN9100/DA2-2CH DAU-98-	27	CH1 Broadcast	Absolute dimming	1 byte C - W percentag. Low	1.1 . 1 + Park
Y Trades	azia 👘	CHI Broadcast	Colour Temp(R)	2 bytes ⊂ - W T U absolute c Low	Description
	# 2 9	CH1 Broadcast	RGB	3 bytes C - W RSB value Low	
	×110	CHI Broadcast	XY	6 bytes C + W + + colour xxY Low	
	82 11	CHt, Generical	Device Count	1 byte C T - counter pullow	
	12	CHI ECG 01, Switching	ON/OFF	1bit C - W switch Low	Last Modified 2022/70/13 10-64
	# 2 13	CHI ECG 01, Status	ON/OFF	1bit ⊂ R - T - switch Low	Last Downloaded
	4214	CHI ECG 01, Relative dimming	Brighten/Darker	4bit C + W + + dimming cLow	Secial Number -
	15	CHI ECG 01, Absolute dimming	Absolute dimming	1 byte C - W percenteg_Low	Senai Number
	a 16	CHI ECG 01, Status dimming value	Brightness	1byte C R - T - percentag. Low	Status
	17	CHIT ECG 01, Failure status	Error code	1byte C R - T - counter pullow	Unknown
	18	CHI ECG 01. CT	Colour Temp(R)	2 bytes ⊂ + W + U absolute c Low	Chelowit
	#2 19	CHI ECG 01, CT	Colour Temp(R), Fee	2 bytes C R - T - absolute c Low	
	22 20	CHI ECG 02, Switching	ON/OFF	1bit C - W switch Low	
	az 22	CHI ECG 02. Relative dimming	Brighten/Darker	4 bit C + W + + dimming c Low	
	23	CH1 ECG 02, Absolute dimming	Absolute dimming	1 byte C - W percentag. Low	
	125	CHIT ECG 02, Failure status	Error code	1 byte ⊂ R - T - counter pu_Low	
	¥2 28	CH1 ECG 03, Switching	ON/OFF	1bit C - W switch Low	
	at 130	CHI ECG 03. Relative dimming	Brighten/Darker	4bit C - W dimming. Low	
	#2 31	CHI ECG 03, Absolute dimming	Absolute dimming	1 byte C - W percentag. Low	
	1 33	CHI ECG 03, Failure status	Error code	1 byte C R - T - counter pullow	Find and Replace
	36	CH1 ECG 04, Switching	ON/OFF	1bit C - W switch Low	
	¥2 38	CHI ECG 04, Relative dimming	Brighter/Darker	4 bit C + W + + dimming cLow	I Workspaces
	39	CH1 ECG 04, Absolute dimming	Absolute dimming	1 byte C - W percentag. Low	Ø Todo Items
	#2 41	CHI ECG 04, Failure status	Error code	1 byte C R - T - counter pullow	
	144	CHI ECG 05. Switching	ON/OFF	The C . W switch Low	Pending Operations

Figure 40

If ECG 01 device type parameter is configured as RGB, Group Objects are as shown in Figure 41:

Switching: ECG switching Status: ECG on/off status feedback Relative dimming: ECG relative dimming Absolute dimming: ECG absolute dimming Status dimming value: ECG dimming value status feedback Failure status: ECG failure status feedback RGB: ECG RGB value RGB. Feedback: ECG RGB value feedback

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D Buildings		er * Name	Object Function Description	Group Addres Length C R W T U Data Type Priority	Settings Comments Information
Dynamic Folders	1 3	CH1. Generical	Rallact fault number	1byte C - T - counter pullow	Name
Ba Sutricher	#24	CHI, General	Lamp fault number	1 byte C T - counter pu Low	KNR9100/DA2-2CH DAU-pateway
	12 5	CH1 Broadcast	Switching	1bit C - W switch Low	
⊿ 🗐 Office	10	CH1 Proadcast	Relative dimming	4 bit C · W · · dimming c. Low	Individual Address
1.1.1 KN9100/DA2-2CH DAU-ga	•z17	CHI Broadcast	Absolute dimming	1 byte C - W percentag. Low	1.1 , 1 0
* Trades	18	CHI Broadcast	Colour Temp(K)	2 bytes C - W T U absolute c. Low	Description
	# 2 9	CHI Broadcast	RCB	3 bytes C - W RSB value Low	
	a 10	CHI Broadcast	XY	6 bytes C - W colour xyV Low	
	12 11	CH1, Genenral	Device Count	1 byte C T - counter pullow	
	12 12	CHI ECG 01, Switching	ON/OFF	1bit C - W switch Low	Last Modified 2022/10/13 10:45
	13	CHIT ECG 01, Status	ON/OFF	1 bit C R - T - switch Low	Last Describeded
	1214	CH1 ECG 01, Relative dimming	Brighter/Darker	4 bit C · W · · dimming cLow	Serial Number
	¥215	CHI ECG 01, Absolute dimming	Absolute dimming	1 byte C - W percentag Low	Jeran Humper
	16	CHI ECG 01, Status dimming value	Brightness	1 byte C R - T - percentag. Low	Status
	#2 17	OH1 ECG 01, Failure status	Error code	1 byte C R - T - counter pullow	Unknown
	#2 18	CH1 ECG 01, RSB	RGB	3 bytes C + W + U RSB value Low	
	19	CHIT ECG OT, RG8	RG8, Feedback	3 bytes C R - T - RG8 value, Low	
	20	CHI ECG 02, Switching	ON/OFF	1bit C - W switch Low	
	22	CH1 ECG 02, Relative dimming	Brighter/Darker	4 bit C - W dimming c_low	
	23	CH1 ECG 02, Absolute dimming	Absolute dimming	1 byte C - W percentag Low	
	# # 25	CH1 ECG 02, Failure status	Error code	1 byte C R - T - counter pullow	
	28	CH1 ECG 03, Switching	ON/OFF	1bit C + W + + switch Low	
	#2 30	CH1 ECG 03. Relative dimming	Brighten/Darker	4 bit C - W dimming c. Low	
	#2 [31	CH1 ECG 03, Absolute dimming	Absolute dimming	1 byte C - W percentag Low	
	42 33	CH1 ECG 03, Failure status	Error code	1 byte C R - T - counter puLow	Find and Replace
	# 2 36	CH1 ECG 04, Switching	ON/OFF	1 bit C - W switch Low	Workspaces
	# 2 38	CHI ECG 04, Relative dimming	Brighter/Darker	4 bit C + W + + dimming cLow	
	39	CH1 ECG 04, Absolute dimming	Absolute dimming	1 byte C - W percentag Low	⑦ Todo Items
	#2 [41	CHI ECG 04, Failure status	Error code	1 byte C R - T - counter pullow	Pending Operations
	1 2144	CHI ECG 05 Switching	ON/OFF	Thit C . W suitch Low	· renaing operations

Figure 41

If ECG 01 device type parameter is configured as XY, Group Objects are as shown in Figure 42: Switching: ECG switching Status: ECG on/off status feedback Relative dimming: ECG relative dimming Absolute dimming: ECG absolute dimming Status dimming value: ECG dimming value status feedback Failure status: ECG failure status feedback XY: ECG XY value XY, Feedback: ECG XY status feedback

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• • • • • • • • • • • • • • • • • • •	Ballast fault number	1 byte C T - counter pullow	Name
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NCI Control Co	XY	6 bytes C + W + + colour xyY Low	
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N 0.01 KG 05, Robust dammag uba N 0.01 KG 05, Robust dammag	Brighter/Darker	4 bit C · W · · dimming c. Low	Serial Number -
Image: The set of the	Absolute dimming	1 byte C - W percentag_Low	Serva rearrant
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Image Control Control Image Control <td>Error code</td> <td>1 byte C R - T - counter pullow</td> <td>Unknown</td>	Error code	1 byte C R - T - counter pullow	Unknown
10 CH 1500 S, basing 11 CH 1500 S, basing 12 CH 1500 S, basing amma 13 CH 1500 S, basing amma 14 CH 1500 S, basing amma 15 CH 1500 S, basing amma 14 CH 1500 S, basing amma 15 CH 1500 S, basing amma 16 CH 1500 S, basing amma 17 CH 1500 S, basing amma 18 CH 1500 S, basing amma 19 CH 1500 S, basing amma 10 CH 1500 S, basing amma 11 CH 1500 S, basing amma 12 CH 1500 S, basing amma	XY	6 bytes C - W - U colour xyY Low	
4121 0.01.0302 Ketalani damming 4123 0.01.0302 Ketalani damming 4123 0.01.0302 Ketalani damming 4123 0.01.0302 Ketalani damming 4123 0.01.0302 Ketalani damming 4124 0.01.0302 Ketalani damming	XY, Feedback	6 bytes C R - T - colour xyY Low	
41 20 CPE (CG & R-booker deming) 41 50 CPE (CG & R-booker deming) 42 20 CPE (CG & R-booker deming) 42 30 CPE (CG & R-booker deming)	ON/OFF	1bit C - W switch Low	
••••••••••••••••••••••••••••••••••••	Brighten/Darker	4 bit C + W + + dimming cLow	
••••••••••••••••••••••••••••••••••••	Absolute dimming	1 byte C - W percentag. Low	
10 CHI ECG 63, Relative dimming 11 CHI ECG 60, Absolute dimming 12 CHI ECG 63, Railure status 14 CHI ECG 64, Absolute dimming	Error code	1 byte C R - T - counter pullow	
C 31 OHI ECG 03. Absolute dimming C 33 CHI ECG 03. Failure status X 36 OHI ECG 04. Switching	ON/OFF	1bit C - W switch Low	
Alt 23 CHI ECG 03, Failure status Alt 26 OHt ECG 04, Switching	Brighter/Darker	4bit C + W + + dimming.c.Low	
#2 36 CHI ECG 04, Switching	Absolute dimming	1 byte C - W percentag. Low	
	Error code	1 byte C R - T - counter pullow	Find and Replace
	CN/OFF	1 bit C - W switch Low	
#2 38 CH1 ECG 04, Relative dimming	Brighter/Darker	4 bit C + W + + dimming cLow	I Workspaces
39 CHI ECG 04, Absolute dimming	Absolute dimming	1 byte C - W percentag_ Low	Ø Todo Items
41 CH1 ECG 04, Failure status	Error code	1 byte C R - T - counter pullow	
et an Internation	CN/DFF	The C + W + + saith Inw >	 Pending Operations
Group Objects Channels Parameter			Undo History

Figure 42

3.3.3. Group Objects of ECG Group

There are total 16 ECG Groups 01-16, each Group can be programmed separately. Group Objects of 16 groups are the same. Following is the Group Objects of Group 01 as an example as shown in Figure 43, for other Groups, please refer to Group 01.

Note: here the ECG Groups 01-16 mirror DALI Groups 0-15.

Group Objects of ECG Group:

Switching: group switching Relative dimming: group relative dimming Absolute dimming: group absolute dimming Color Temp(K): group color temperature value RGB: group RGB value XY: group XY coordinate value

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Dynamic Folders	251	CH1 ECG 63. Absolute dimming	Absolute dimming	1 byte C - W percented, Low	* Name
Ba Surricher	#2513	CH1 ECG 63. Failure status	Error code	1 byte C R - T - counter pu Low	CHI Group DI. Switching
	1516	CH1 ECG 64. Switching	ON/OFF	1 bit C - W switch Low	Description
4 🗐 Office	1518	CHI ECG 64. Relative dimmina	Frighter/Darker	4 bit C - W dimmins - Low	
1.1.1 KN9100/DA2-2CH DALI-pa	2519	OH1 ECG 64, Absolute dimming	Absolute dimming	1 byte C - W percentag. Low	
č Trades	1521	CHI ECG 64 Enlure status	Front code	1 byte C R - T - counter pullow	
	#21524	CH1 Group 01, Switching	ON/OFF	1 bit C - W switch Low	
	1525	CH1 Group 01, Relative dimming	Brighter/Darker	4 bit C + W + + dimming c_Low	Priority
	#2 526	CHI Group 01, Absolute dimming	Absolute dimming	1 byte C - W percented, Low	Low
	#2 527	CHI Group 01, Color Temp	Color Temp	2 bytes C + W T + pulses Low	Regs
	#21528	CHI Group 01, 868	858	3 bytes C - W RS8 value., Low	✓ Communication
	1529	CHI Group OL XY	37	6 bytes C + W + + colour x/Y Low	Read
	×1530	CHI Group 02, Switching	ON/OFF	1 bit C - W switch Low	✓ Write
	2 531	CHI Group 02. Relative dimming	Brighter/Darker	4 bit C + W + + dimming c_Low	Transmit
	#21532	CHI Group 02, Absolute dimming	Absolute dimming	1 byte C - W percentag, Low	Update Read On Init
	×1533	CH1 Group 02, Color Temp	Color Temp	2 bytes C + W T + pulses Low	
	#2534	CHT Group 02, RGB	RGB	3 bytes C - W RG8 value Low	Data Type
	#21535	CH1 Group 02, XY	XY	6 bytes C - W colour x/Y Low	1/1-bit *
	1536	CH1 Group 03. Switching	ON/OFF	1 bit C - W switch Low	1.002 boolean
	1 537	CH1 Group 03. Relative dimming	Brighter/Darker	4 bit C - W dimming c_Low	1.003 enable
	×1538	CHI Group 03. Absolute dimming	Absolute dimming	1 byte C - W percentag, Low	1.004 ramp 1.005 alarm
	×2 539	CH1 Group 03. Color Temp	Color Temp	2 bytes C - W T - pulses Low	1.006 binary value
	#2 540	CH1 Group 03, RGB	RGB	3 bytes C - W RGB value Low	
	#2541	CH1 Group 03, XY	XY	6 bytes C - W colour x/Y Low	Default
	1542	CH1 Group 04, Switching	ON/OFF	1 bit C - W switch Low	P Find and Replace
	#1 543	CH1 Group 04, Relative dimming	Brighter/Darker	4 bit C - W dimming c. Low	
	544	CHI Group 04, Absolute dimming	Absolute dimming	1 byte C - W percentag. Low	Workspaces
	¥2 545	CH1 Group 04, Color Temp	Color Temp	2 bytes C - W T - pulses Low	O Todo Items
	#2 546	CHI Group 04, RGB	RGB	3 bytes C · W · · RG8 value Low	
	#21547	Oit Smin 04 XY	XY	6 hotes C + W + + colourself Low	 Pending Operations
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15.15.1 ABB (PS/52.1 (192.168.100.222.3671)			111 IO 6703-DA2-2DH DALI-sateway	524 CHI Droug 01, Switching - Chi CHI	Last used vorkspace

3.3.3. Group Objects of Scene

There are total 16 Scenes 01-16, the Group Objects of scene are used to recall the configured 16 DALI scenes, the Group Objects of scene are as shown in Figure 44.

Note: here the 16 scenes 01-16 mirrors the configured DALI scene numbers 0-15.

Group Objects of Scene:

Scene 8bit, Scene No.: directly recall scene numbers 01-16 (corresponding to DALI scene 0-15) Scene 1bit, Recall 01/02: send data 0/1 to recall scene number 01/02 (corresponding to DALI scene 0/1) Scene 1bit, Recall 03/04: send data 0/1 recall scene number 03/04 (corresponding to DALI scene 2/3) Scene 1bit, Recall 05/06: send data 0/1 recall scene number 05/06 (corresponding to DALI scene 4/5) Scene 1bit, Recall 07/08: send data 0/1 recall scene number 07/08 (corresponding to DALI scene 6/7) Scene 1bit, Recall 09/10: send data 0/1 recall scene number 09/10 (corresponding to DALI scene 8/9) Scene 1bit, Recall 11/12: send data 0/1 recall scene number 11/12 (corresponding to DALI scene 10/11) Scene 1bit, Recall 13/14: send data 0/1 recall scene number 13/14 (corresponding to DALI scene 12/13) Scene 1bit, Recall 15/16: send data 0/1 recall scene number 15/16 (corresponding to DALI scene 14/15)



Wiring diagram





Product Dimension



