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.

In addition to the standard functions, e.g. switching, dimming and brightness value setting with the corresponding feedback, the DALI Gateway offers the function Scene. The lighting groups or individual lamps can be integrated in an energy-efficient building automation system via a KNX presence detector or light controller.

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
Suppry	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
DALLoutputs	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	elp			
💋 DALI Master	DeviceInfo		Cycle and HCL planning status	
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• 🧏 Bus #2	Serial 12991404 - 0040253c - 168	77107 Version 1.2		
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	MinLeve	O System Extension (search unaddressed devices)	1	Set
		Complete new installation (current device list will be	-	5.00
	maxieve	Keep Group Info	26 254 2.34	36
	PowerOnLew	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
	EndeTim	"physical selection" method:		Set
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	110	Back Next Abort		
	сф			Recall
	Denser	Company and Company and Company		

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.

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🔻 🛕 Gears Group2 (G2)	Actual Values	1	20 %	0	254	0	0	0			9	MA: 96	MASK	MASK	MASK	MASK	MASK	
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LED Converter (A19)																		

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 11

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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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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.



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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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.**

💼 Sunricher	- CH1 General	Brightness value when turn on	maxbrightness	•	KNR100yDA2-2CH DAU-gateway
B Sutricher	- CH1 General	Brightness value when turn on	max brightness		KN0103/DA2-2CH DAU-gateway
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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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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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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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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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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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	120	CHI ECG D& Absolute dimming	Absolute dimming	1byte C - W percentan Low	 This and neplace
	az] 41	CHT ECG 04. Failure status	Error code	1byte C R - T - counter pu Low	Workspaces
	2 44	CH1 ECG 05. Switching	ON/OFF	1bt C · W · · switch Low	O Todo Neme
	#2146	CHI ECG 05. Relative dimming	Brighten/Darker	4 bit C + W + + dimmina.c. Low	V IVUV IIEIIO
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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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	116	CHI ECG 01 Status dimmion value	Brightness	libite C B - T - percentan low
-2-	#2117	CHI ECG 01. Failure status	Error code	1byte C R - T - counter pu Low
	·2120	CHI ECG 02. Switching	ON/OFF	1bt C · W · · seitch Low
	# 2 22	CHI ECG 02. Belative dimming	Brighten Darker	4bt C - W dimminsic Low
	·2223	CHI ECG 02. Absolute dimming	Absolute dimming	1byte C - W percentan, Low
	#2125	CHI ECG 02. Failure status	Error code	1byte C R - T - counter pu_Low
	28	CH1 ECG 03. Switching	ON/OFF	1bit C - W switch Low
	#2 30	CHI ECG 03. Relative dimming	Brighten/Darker	4bit C - W dimmina.c.Low
	# 2 31	CHI ECG 03, Absolute dimming	Absolute dimming	1 byte C - W percentag. Low
	#2133	CHI ECG 03. Failure status	Error code	1byte C R - T - counter pullow
	#2 36	CH1 ECG 04, Switching	ON/OFF	1bit C - W switch Low
	1 38	CHI ECG 04, Relative dimming	Brighten/Darker	4bt C + W + + dmmingcLow P Find and Beplace
	#2 30	CHI ECG 04, Absolute dimming	Absolute dimming	1byte C - W percenteg. Low
	82 41	CH1 ECG 04, Failure status	Error code	1byte C R - T - counter pu_Low Workspaces
	#2 44	CH1 ECG 05, Switching	ON/OFF	1bit C - W switch Low O Todo Items
	82 46	CHI ECG 05. Relative dimming	Brighten/Darker	4bR C + W + + dmmingcLow
	87 47	CHI ECG 05. Absolute dimmino	Absolute dimmino	1hute C - W nerrenten Low Y O Pending Operations
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15 15 1 ARR (P\$/52 1 /192 168 100 22)	- 112	New line	111 KNB100/DA2-2CH DAU-gataway	Laz used vorkspace

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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B Suncinter	24	CHI, Genenral	Lamp fault number	1 byte C T - counter pu_Low ktv9100/042-201 DAU-antenny
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a ag once	10	CHI Broadcast	Relative dimming	4bit C · W · · dimming cLow
1.1.1 KN9100/DA2-2CH DAU-ga.	# 47	CH1 Broadcast	Absolute dimming	1byte C - W percentag. Low
🔆 Trades	2 28	CHI Broadcast	Colour Temp(R)	2 bytes C - W T U absolute c Low Description
	* 29	CH1 Broadcast	RGB	3 bytes C - W RGB value Low
	1 0	CHI Broadcast	XY	6 bytes C - W colour xyY Low
	82 11	CH1, Generical	Device Count	1 byte C T - counter pu…Low
	12	CHI EOG 01, Switching	ON/OFF	Tok C - W switch Low Last Modified 2022/00/03 35-44
	#2 13	CH1 ECG 01, Status	ON/OFF	1bit C R - T - switch Low Last Dreenloaded -
	# 214	CHI ECG 01, Relative dimming	Brighter/Darker	4 bit C + W + + dimming cLow Serial Member
	15	CH1 ECG 01, Absolute dimming	Absolute dimming	1 byte C - W percentag. Low
	8 216	CH1 ECG 01, Status dimming value	Brightness	1 byte ⊂ R - T - percentag. Low Status
	217	CHIT ECG 01, Failure status	Error code	1 byte C R - T - counter puLow Linknown
	8 18	CHI ECG 01, CT	Colour Temp(R)	2 bytes C + W + U absolute c Low
	# 2 19	CHI ECG 01, CT	Colour Temp(K), Fee	2 bytes C R - T - absolute c Low
	22	CHI ECG 02, Switching	ON/OFF	1bit C - W switch Low
	#7 22	CHI ECG 02. Relative dimming	Brighten/Darker	4 bit C - W dimming cLow
	23	CH1 ECG 02, Absolute dimming	Absolute dimming	1 byte C - W percentag. Low
	# 225	CH1 ECG 02, Failure status	Error code	1 byte ⊂ R - T - counter pu…Low
	228	CH1 ECG 03, Switching	CN/DFF	1 bit C - W switch Low
	a 30	CHI ECG 03. Relative dimming	Brighten/Darker	4bit C - W dimming c_Low
	#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 pu_Low Pind and Replace
	82 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 Workspaces
	1 39	CH1 ECG 04, Absolute dimming	Absolute dimming	1 byte C - W percentag. Low (2) Todo Items
	87 41	CH1 ECG 04, Failure status	Error code	1byte C R - T - counter pullow
	140	CHI ECG 05 Switching	ON/OFF	1 hit C - W switch I nw 👻 🕓 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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a illa Suncinter	# 24	CHI, Genenral	Lamp fault number	1 byte C T - counter pullow	KN9100/DA2-2CH DAU-gateway
. D.1	12 5	CH1 Broadcast	Switching	1bit C - W switch Low	Individual Address
a gaj omce	1 26	CHI Broadcast	Relative dimming	4 bit C - W dimming cLow	11 1 *
1.1.1 KN9100/DA2-2CH DAU-ga	# 27	CH1 Broadcast	Absolute dimming	1 byte C - W percentag Low	1.1 . T
关 Trades	1	CHI Broadcast	Colour Temp(R)	2 bytes C - W T U absolute c Low	Description
	# 219	CH1 Broadcast	RGB	3 bytes C - W RG8 value Low	
	1 0	CHI Broadcast	XY	6 bytes C - W colour xyV Low	
	8 11	CH1, Generiral	Device Count	1 byte C T - counter pullow	
	FT 12	CHI ECG 01, Switching	ON/OFF	1bit C - W switch Low	Last Modified 2022/00/13 10:45
	# 413	CH1 ECG 01, Status	ON/OFF	1bit C R - T - switch Low	Last Downloaded
	F	CHI ECG 01, Relative dimming	Brightes/Darker	4 bit C · W · · dimming cLow	Serial Number
	# 115	CH1 ECG 01, Absolute dimming	Absolute dimming	1 byte C - W percentag Low	
	16	CH1 ECG 01, Status dimming value	Brightness	1 byte C R - T - percentag Low	Status
	#2 17	CH1 ECG 01, Failure status	Error code	1 byte C R - T - counter pullow	Unknown
	# 18	CHI ECG 01, RGB	RGB	3 bytes C + W + U RSB value Low	
	# 2 19	CHIT ECG 01, RG8	RG8, Feedback	3 bytes C R - T - RG8 value_Low	
	20	CHI ECG 02, Switching	ON/OFF	1 bit C + W + + switch Low	
	# 2 22	CH1 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	
	#225	CHI 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	CHI 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	
	4 33	CHT ECG 03, Failure status	Error code	Tbyte C R - T - counter pullow	Find and Replace
	#236	CH1 ECG 04, Switching	ON/OFF	1 bit C - W switch Low	III Wordsmanner
	38	CHI ECG 04, Relative dimming	Brighten/Darker	4 bit C + W + + dimming cLow	wonspaces
	39	CH1 ECG 04, Absolute dimming	Absolute dimming	1 byte C - W percentag Low	Ø Todo Items
	# 2 41	CH1 ECG 04, Failure status	Error code	1byte C R - T - counter pullow	O and the Owner of the
	\$2144	CHI ECG 05. Switching	ON/OFF	Thit C . W saith Low	· · · renaing operauons

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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Name Cit Off feastant Columbra City Margin City Margi	1.1.1 KN9100/DA2-2CH DAU-ga	227	CH1 Broadcast	Absolute dimming	1 byte C - W percentag. Low	1.1 , T +
c1 Of feadure KG Styme C W - W M	K Trades	228	CHI Broadcast	Colour Temp(R)	2 bytes C - W T U absolute c Low	Description
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Initial OPE (CO G, W) W Expanse Expanse <t< td=""><td></td><td>27 17</td><td>CHI ECG 01, Failure status</td><td>Error code</td><td>1 byte C R - T - counter pullow</td><td>Unknown</td></t<>		27 17	CHI ECG 01, Failure status	Error code	1 byte C R - T - counter pullow	Unknown
Infly OP (10 G): W W. Hetland Explicit C 1 1 -		#2 1B	CHI ECG 01, XY	XY	6 bytes C - W - U colour syY Low	CIRCONI
CIS: OPECOS: Name OPECOS: Name Law CIS: OPECOS: Name Second Second <t< td=""><td></td><td>#2 19</td><td>CHI ECG 01, XY</td><td>XY, Feedback</td><td>6 bytes C R - T - colour xyY Low</td><td></td></t<>		#2 19	CHI ECG 01, XY	XY, Feedback	6 bytes C R - T - colour xyY Low	
eff2 O+10.02, Monte demmg BightmChater 4.84 C · W · · · pervise_Low G2 O+10.02, Monte demmg Absolute demmg Type C · W · · pervise_Low G3 O+10.02, Monte demmg O+10.02, Monte demmg Type C · W · · pervise_Low G3 O+10.02, Monte demmg O+10.02, Monte demmg O+10.02, Monte demmg O+10.02, Monte demmg G1 O+10.02, Monte demmg Absolute demmg Type C · W · · and/to Low Demote demo		2220	CH1 ECG 02. Switching	ON/OFF	1bt C - W switch Low	
G23 OP EC G2. All solution demming Assisted demming Tayle C • W • > 0 To imprime 1, two G23 OP EC G2. This is discuss demming Express of two To imprime 1, two G23 OP EC G3. Name is discuss demming Express Of two To imprime 1, two G23 OP EC G3. Name is discuss demming Express Of two To imprime 1, two G23 OP EC G3. Name is deming Express Of two To imprime 1, two G33 OP EC G3. Name is deming Express Of two To imprime 1, two G33 OP EC G4. Name is deming Express Of two To imprime 1, two G33 OP EC G4. Name is deming Express Of two To imprime 1, two G33 OP EC G4. Name is deming Express Of two To imprime 1, two G33 OP EC G4. Name is deming Express Of two To imprime 1, two G43 OP EC G4. Name is deming Express Of two To imprime 1, two G43 OP EC G4. Name is deming Express Of two To imprime 1, two G44 OP EC G4. Name is deming To imprime 1, two OP End of Op Op Number 10		#2 22	CHI ECG 02. Relative dimming	Brighten/Darker	4 bit C + W + + dimming cLow	
CID OP 100 CL Nume matu Derrorate Typer C I I C I		2223	CH1 ECG 02, Absolute dimming	Absolute dimming	1 byte C - W percentag. Low	
off OP (CG 8), before \$mmg OP (CF) Tat. C · W · · · demig. Low VI2 OP (CG 8), before \$mmg Byself cafering Byself cafering Tat. OP (CG 8), before \$mmg Advise \$mmg Tat. OP (CG 8), before \$mmg OP (CG 8), before \$mmg Tat. OP (CG 8), before \$mmg OP (CG 8), before \$mm		1225	CHI ECG 02, Failure status	Error code	1byte C R - T - counter pullow	
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VIII OH CO 44 Marked memory OH/CVF Tat C - W Marked Law Month Law		2 33	CH1 ECG 03, Failure status	Error code	1 byte C R - T - counter pullow	P Find and Replace
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Inclusion Appoint drimming Type C - W secretagLow Image: Comparison of the C - W secr		#238	CH1 ECG 04, Relative dimming	Brighter/Darker	4 bit C + W + + dimming.c.Low	Workspaces
MELLA CHE (CO 4), False status (for code) Type C 8 → T - converge Low (MELLA CHE (CO 4), False status (for code) Type C 8 → T - converge Low (for C 4)		1 39	CHT ECG 04, Absolute dimming	Absolute dimming	1 byte C - W percentag. Low	O Todo Items
willed OHIEGG 5 Switching ON/DEE 1bit C W - switch Inw * O Pending Operations		#2 41	CH1 ECG 04, Failure status	Error code	1 byte C R - T - counter pullow	-
		#2144	CHI FOG 05. Switching	ONJOEF	The C - W saith Low	Pending Operations
		Group C	Jojects Channels Parameter			- on a construction of a

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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D Buildings	Num	er * Name	Object Function Description	Group Addres Length C R W T U Data Type Priority	Settings Comments Information	
Damamic Editors	251	CH1 ECG 63. Absolute dimming	Absolute dimming	1 byte C - W percentag, Low	* Name	
a Ra Sussistar	#2513	CHI ECG 63. Failure status	Error code	1 byte C R - T - counter pullow	CHI Group DI. Switching	
	2 516	CH1 ECG 64, Switching	ON/OFF	1 bit C - W switch Low	Description	
A Dig Office	1518	CHI ECG 64. Relative dimming	Erighter/Darker	4 bit C - W dimming c_low		
1.1.1 KN9100/DA2-2CH DALI-ga	#2519	CHI ECG 64, Absolute dimming	Absolute dimming	1 byte C - W percentag. Low		
X [*] Trades	1521	CHI ECG 64, Failure status	Error code	1 byte C R - T - counter pullow		
	\$2524	CH1 Group 01, Switching	ON/OFF	1 bit C - W switch Low		
	\$25	CH1 Group 01, Relative dimming	Brighter/Darker	4 bit C + W + + dimming c_Low	Priority	
	12 526	OH1 Group 01, Absolute dimming	Absolute dimming	1 byte C - W percentag. Low	Low	*
	#2 527	CHI Group 01, Color Temp	Color Temp	2 bytes C + W T + pulses Low	Flags	
	#2 528	CHI Group 01, RG8	RGB	3 bytes C - W RGB value Low	✓ Communication	
	529	CHI Group 01, XY	XY	6 bytes C + W + + colourxy// Low	Read	
	#2 530	CHI Group 02, Switching	ON/OFF	1 bit C - W switch Low	✓ Write	
	531	CH1 Group 02, Relative dimming	Brighter/Darker	4 bit C + W + + dimming c_Low	Transmit	
	# 2 532	CH1 Group 02, Absolute dimming	Absolute dimming	1 byte C - W percenteg. Low	Bead On Init	
	8 533	CH1 Group 02, Color Temp	Color Temp	2 bytes C + W T + pulses Low	Data Turce	
	# # 534	CHI Group 02, RGB	RGB	3 bytes C - W RGB value Low	111.04	
	# \$35	CHI Group 02, XY	XY	6 bytes C - W colourxy/ Low	1.001 switch	-
	4 2 536	CHI Group 03, Switching	ON/OFF	1 bit C - W switch Low	1.002 boolean	
	537	CH1 Group 03, Relative dimming	Brighter/Darker	4 bit C + W + + dimming c_Low	1.003 enable	
	#2 538	CHI Group 03, Absolute dimming	Absolute dimming	1 byte C - W percentag. Low	1.005 alarm	
	82 539	CH1 Group 03, Color Temp	Color Temp	2 bytes C - W T - pulses Low	1.006 binary value	
	54 0	CH1 Group 03, RGB	RGB	3 bytes C - W RGB value Low	Defend.	
	#2 541	CH1 Group 03, XY	XY	6 bytes C - W colour x/Y Low		
	\$42	CH1 Group 04, Switching	ON/OFF	1 bit C - W switch Low	Find and Replace	
	543	CH1 Group 04, Relative dimming	Brighter/Darker	4 bit C - W dimming c Low	The second se	
	544	CHI Group 04, Absolute dimming	Absolute dimming	1 byte C - W percentag Low	Workspaces	
	\$\$1545	OH1 Group 04, Color Temp	Color Temp	2 bytes C - W T - pulses Low	Ø Todo Items	
	#2 546	CH1 Group 04, ROB	RGB	3 bytes C + W + + RGB value Low	O Danie Counting	
	#21547 16	Oil Smin 04 XY	XY	6 holes C - W colourseV Low	 Pending operations 	
	Group (Objects Channels Parameter			Undo History	
15.15.1 AB8 IPS/S2.1 (192.168.100.222.3671)	+ 11N	ev ine	11.1 KHISTOD, CA2-2CH DALI-galaway	524 CH1 Droup 01, Switching - Chi(CHF	Last used workspace	

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



