



KNX-DALI Gateway















Features

- KNX to DALI gateway(DALI-2)
- · 2 independent DALI Bus channels with built in DALI power supply (up to 250mA per bus)
- Connect up to 2×64 DALI ECGs
- Max 16 scenes and groups setting per channel
- OLED display, LED indicators and buttons for local operation
- Built in with 250V/5A(×4) relay
- Easy installation and configuration via ETS(database and DCA)
- Program via ETS5 / ETS6 software
- Up to 16 Effect (32 Steps per Effect) and 16 Timer (6 Operations per Timer) can be parameterized
- Support DALI-2 devices with part 202/207/208/209 (DT1/DT6/DT7/DT8)
- · Built in with web browser
- 5 years warranty

Description

DLC-02-KN is a KNX to DALI gateway used to connect a digital DALI lighting system to the KNX installation. It enables the room-based lighting control units to be conveniently incorporated into the higher-level KNX building management system. This device transforms switch and dim commands from the connected KNX system into DALI telegrams and status information from the DALI bus into KNX telegrams. Besides being programmed via ETS software, user may conduct quick tests on DALI ECGs via a web browser. DLC-02-KN supports up to 128 DALI participants via two independent DALI Bus. The DALI Bus power supply comes directly within DLC-02-KN, so no additional DALI power supply is required. This device comes in 4 built-in relays, providing switching possibilities for home applications and non-dimmable lighting. In addition, DLC-02-KN is also integrated with several features. The Effect function allows users to customize

a series of brightness values and color gradients with limited cycles (1-255) or unlimited cycles, which is suitable for entertainment applications. Thanks to an embedded battery, time is memorized even AC is lost. The clock of DLC-02-KN can be synchronized in real-time; therefore, the regular events and actions can be scheduled by the Timer function accordingly. Furthermore, Standby switch-off function can be realized in combination with a KNX switch actuator (e.g., KAA-8R-S). Through this setup, when all DALI devices are under OFF status, DLC-02-KN can inform the actuator to cut-off AC input of DALI ECGs to save energy.

Model Encoding



Applications

- · Office lighting
- Smart home lighting
- · Luxury villas lighting
- LED indoor lighting
- · Human centric lighting control
- RGBW lighting control
- · Building automation system

■ GTIN CODE

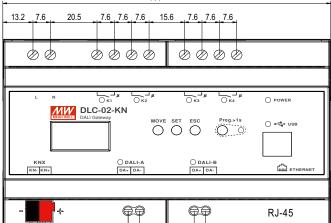
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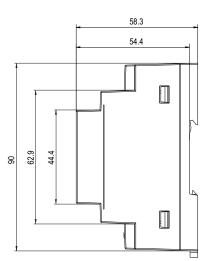
SPECIFICATION

MODEL		DLC-02-KN		
OUTPUT	BUS VOLTAGE	Built-in DALI bus power supply; Voltage range : 2x16V		
	GUARANTEED SUPPLY CURRENT	2x240mA		
	MAXIMUM SUPPLY CURRENT	2x250mA		
	RATED POWER	7.68W		
	SETUP,RISE TIME	250ms/115VAC,50ms/230VAC		
INPUT	VOLTAGE RANGE	100~305VAC, 140~430VDC,(class II)		
	FREQUENCY RANGE	47~63Hz		
	AC CURRENT(Typ.)	0.5A/115VAC 0.25A/230VAC		
	INRUSH CURRENT(Typ.)	COLD START 45A/230VAC		
ROTECTION	SHORT CIRCUIT	Short circuit delay 0.7S shutdown,Restart period 5S, Retry time 0.7S		
FUNCTION	USB INTERFACE	1 USB slave connector , type-B		
	DISPLAY	OLED display for easy operation		
	INDICATOR	2*LED indicators for BUS voltage; 4*LED indicators for relay ;1*LED indicators for power on.		
	GENERIC SETTING	Three buttons (MOVE, SET, ESC) on the front panel to set and view settings		
	KNX	DALI Gateway(KNX type)		
	Ethernet	Control via web browser (RJ-45)		
	Relay	10A/125VAC ,5A/250VAC		
ENVIRONMENT	WORKING TEMP.	-25 ~ +45°C		
	WORKING HUMIDITY	5 ~ 93% RH non-condensing; comply with climatic EN50090-2-2		
	STORAGE TEMP., HUMIDITY	-25 ~ +70 $^{\circ}\mathrm{C}$, 10 ~ 95% RH non-condensing		
	VIBRATION	5 ~ 150Hz, 2G 12min./1cycle, each along X, Y, Z axes according to EN50090-2-2		
SAFETY & EMC	SAFETY STANDARDS	Compliance to BS EN/EN63044-1, BS EN/EN63044-3		
	DALI STANDARDS	Compliance to BS EN/EN62368-101,BS EN/EN62386-103		
	EMC EMISSION	Compliance to BS EN/EN63044-5-2, BS EN/EN63044-5-3(BS EN/EN50491-5-2/3)		
	EMC IMMUNITY	Compliance to BS EN/EN63044-5-2, BS EN/EN63044-5-3(BS EN/EN50491-5-2/3)		
OTHERS	MTBF	562.4K hrs min. Telcordia SR-332 (Bellcore); 167.2K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	144*90*58.3mm (L*W*H)		
	PACKING	0.43Kg; 30pcs/13.9Kg/ 1.30CUFT		
	DIN RAIL MOUNTING	35 mm rail ; 8 units wide		
	ENCLOSURE MATERIAL	ABS-V0		
NOTE	 Maximum allowable DA The devices may be of 	of specially mentioned are measured at 230VAC input and 25°C of ambient temperature. le DALI driver is 64 per channel. be operated only up to 2000m(6500ft). bisclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx		

■ Block Diagram DALI power supply Bus A Bus B Main Power Main control USB Interface User Pannel KNX Interface Ethernet Interface ■ Derating Curve ■ Static Characteristics 100 100 90 80 60 40 20 70 (VERTICAL) INPUT VOLTAGE (V) 60Hz AMBIENT TEMPERATURE (°C) ■ Mechanical Specification Unit:mm Case No. 144 58.3



55.1

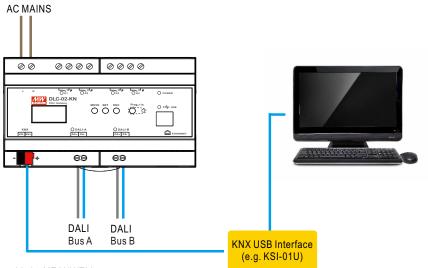




ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

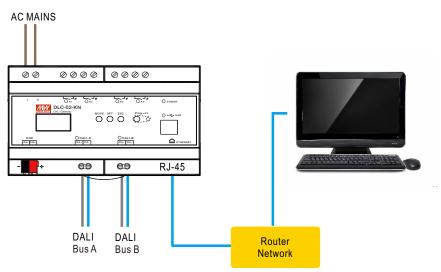
■ Program Setting

© Comission through ETS(database and DCA)

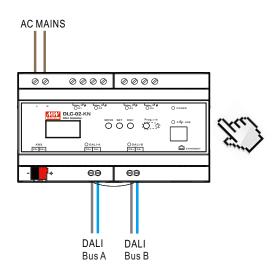


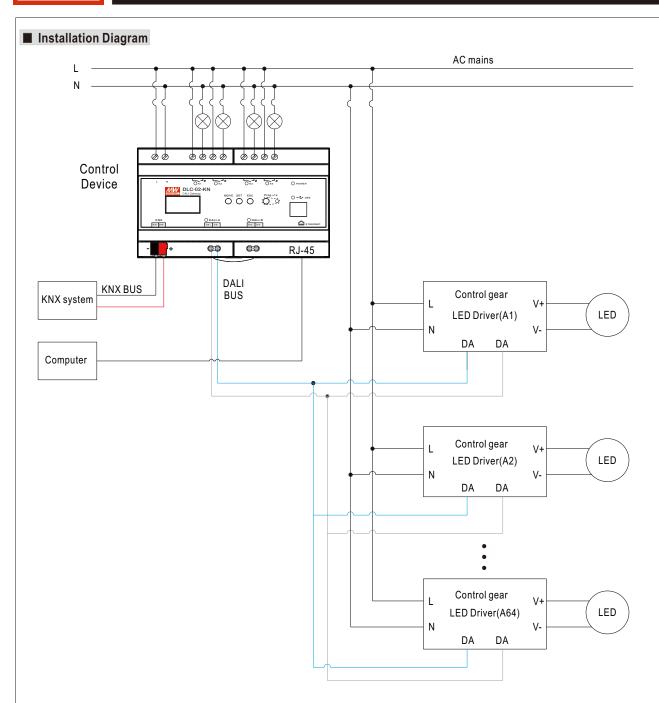
Database and DCA provide by MEANWELL

Controlling DALI devices via web browser



O Local setting

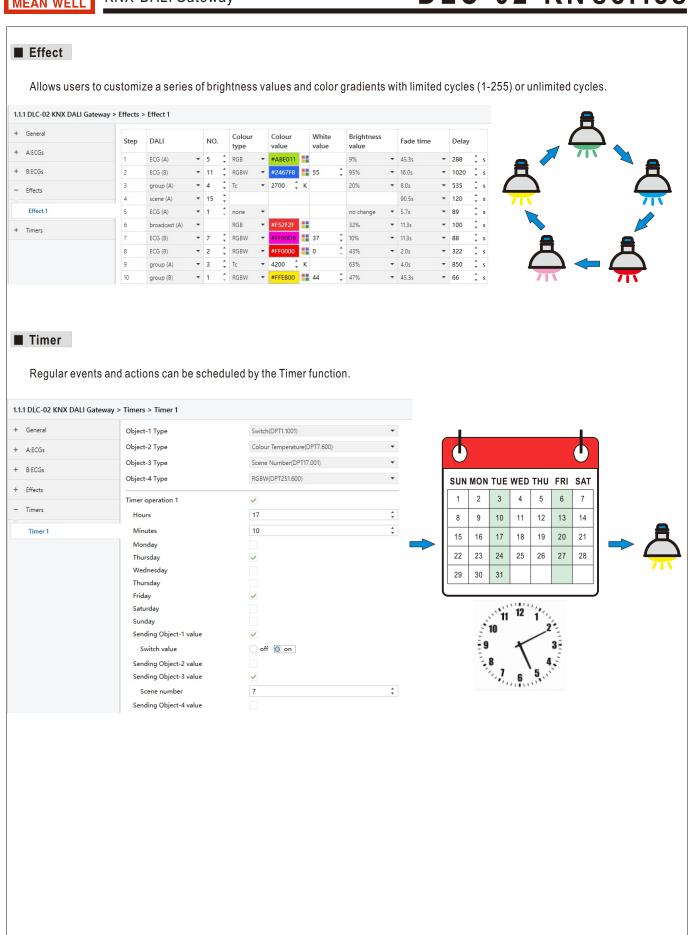




Support DALI-2 Device Type

Part	Type of control gear	Device type number
202	Self-contained emergency control gear	Device Type 1 (DT1)
207	LED lamp control gear	Device Type 6 (DT6)
208	Switching (relay) control gear	Device Type 7 (DT7)
209	Colour control gear (Tc tunable white, RGBW, xy-coordinate)	Device Type 8 (DT8)

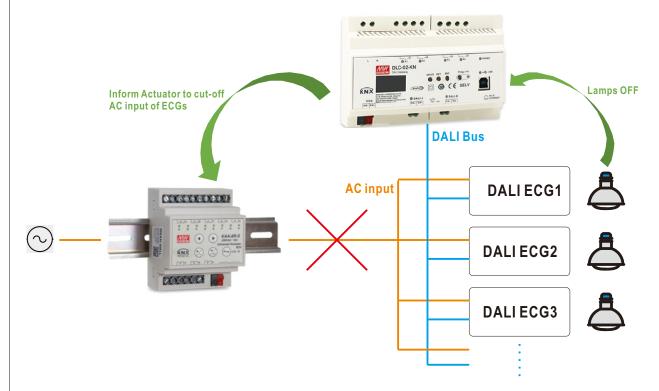






■ Standby switch-off

When all DALI devices are under OFF status, DLC-02-KN can inform the actuator (e.g., KAA-8R-S) to cut-off AC input of DALI ECGs to save energy.



■ Recommended Screwdriver, Wire and Torque Setting

- 1.Screwdriver(Width*Thick):Slotted screwdriver 2.5*0.4~3.5*0.6
- 2.Wire:1~2.5mm² solid core or 1~2.5mm² finely stranded
- 3.Torque:0.8Nm

■ Installation Manual

Please refer to: http://www.meanwell.com/manual.html

■ Configuration and Commissioning

The application program(database and DCA) for ETS can be downloaded via http://www.meanwell.com/productCatalog.aspx