

## INKNXDAL0640000

### DALI to KNX gateway

Order Code:

INKNXDAL0640000 (64 ballasts, 1 DALI channel)

#### HOW IT WORKS

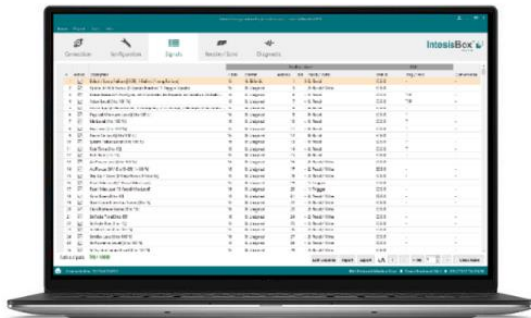
The Intesis **INKNXDAL0640000** Gateway has been specially designed to work as a translator between a DALI installation and a KNX TP-1 based Installation.

Intesis acts as a master in the DALI bus, allowing KNX devices to read and write on all configured DALI signals.

KNX bus is connected to the specific KNX TP-1 port of the gateway.

Each signal from the DALI bus can be associated to specific KNX group addresses, which can be accessed from a standard KNX installation. Those signals allow control and monitoring for these specific DALI signals from the KNX installation.

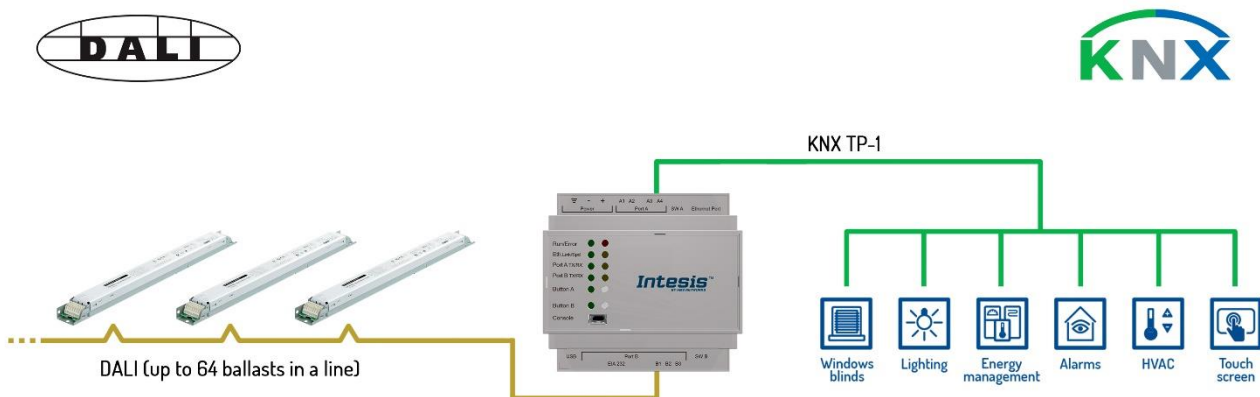
Configuration project is done through Intesis MAPS.



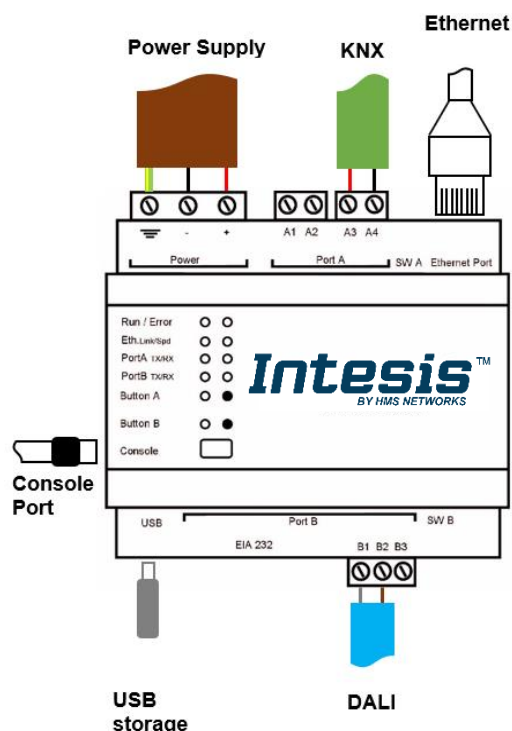
#### FEATURES

- Handles conversion between KNX and DALI ballasts
- DALI multi-master support
- DALI line scan (ballast detection) and commissioning
- Up to 64 DALI lighting devices
- Configuration through IP or USB (Console) port
- Datalogging through external USB port
- Front cover LED indicators to provide easy to check communication status on both the Ethernet and serial ports
- Includes Intesis MAPS with automatic updates for both Intesis MAPS and Gateway's firmware

#### INTEGRATION EXAMPLE



## CONNECTIONS



## PROTOCOLS



DALI is a **dedicated protocol for digital lighting control** that enables the easy installation of robust, scalable and flexible lighting networks.

The digital nature of DALI allows **two-way communication** between devices, so that a device can report a failure, or answer a query about its status or other information.

Wiring is relatively simple; DALI power and data is carried by the same pair of wires, without the need for a separate bus cable

For further information visit <https://www.digitalilluminationinterface.org>



KNX is the world's only open Standard for the control in both commercial and residential buildings.

This standard is based upon more than 20 years of experience in the market. Bus devices can either be sensors or actuators needed for the control of building management equipment such as: lighting, blinds/shutters, security systems, energy management, heating, ventilation and air-conditioning systems, signaling and monitoring systems, interfaces to service and building control systems, remote control, metering, audio/video control, white goods, etc.

For further information, please visit [www.knx.org](http://www.knx.org)

## COMMUNICATION

	KNX	DALI
Connection	TP-1	DALI
Date rate	9.6 kbps	1.2 kbps
Data Types	DPT_1.x (1 bit) DPT_5.x (1 byte unsigned) DPT_8.x (2 byte signed)	DALI Fluorescent lights (DALI type 0) Emergency lights (DALI type 1) LED modules (DALI type 6)
&		
Functions supported		

## ELECTRICAL & MECHANICAL FEATURES

Enclosure	Plastic, type PC (UL 94 V-0) Net dimensions (dxwxh): 90x88x56 mm Recommended space for installation (dxwxh): 130x100x100mm Color: Light Grey. RAL 7035
Mounting	Wall. DIN rail EN60715 TH35.
Terminal Wiring (for power supply and low-voltage signals)	Per terminal: solid wires or stranded wires (twisted or with ferrule) 1 core: 0.5mm <sup>2</sup> ... 2.5mm <sup>2</sup> 2 cores: 0.5mm <sup>2</sup> ... 1.5mm <sup>2</sup> 3 cores: not permitted If cables are more than 3.05 meters long, Class 2 cable is required.
Power	1 x Plug-in screw terminal block (3 poles) Positive, Negative, Earth 24VDC
Ethernet	1 x Ethernet 10/100 Mbps RJ45 2 x Ethernet LED: port link and activity
Port A	1 x KNX TP-1 Plug-in screw terminal block orange (2 poles) 2500VDC isolation from other ports KNX power consumption: 5mA Voltage rating: 29VDC 1 x Plug-in screw terminal block green (2 poles) Reserved for future use
Switch A (SWA)	1 x DIP-Switch for PORT A configuration: Reserved for future use
PORT B	1 x Serial EIA232 (SUB-D9 male connector) Reserved for future use 1500VDC isolation from other ports (except PORT B: EIA485) 1 x DALI port (Plug-in screw terminal 3 poles) 1500VDC isolation from other ports DALI power consumption: 240mA Voltage rating: 16VDC 1500VDC isolation from other ports (except PORT B: EIA232)
Switch B (SWB)	1 x DIP-Switch for PORT A configuration: Reserved for future use

Battery	Size: Coin 20mm x 3.2mm Capacity: 3V / 225mAh Type: Manganese Dioxide Lithium
Console Port	Mini Type-B USB 2.0 compliant 1500VDC isolation
USB port	Type-A USB 2.0 compliant Only for USB flash storage device (USB pen drive) Power consumption limited to 150mA (HDD connection not allowed)
Push Button	Button A: Check the user manual Button B: Check the user manual
Operation Temperature	0°C to +60°C
Operational Humidity	5 to 95%, no condensation
Protection	IP20 (IEC60529)
LED Indicators	10 x Onboard LED indicators 2 x Run (Power)/Error 2 x Ethernet Link/Speed 2 x Port A TX/RX 2 x Port B TX/RX 1 x Button A indicator 1 x Button B indicator

