RAPIX DALI-2 Universal Switch Input

DATA SHEET

Order Code	DGOZ-USI-6
Overview	DALI-2 input unit, powered from the DALI line. Six non-isolated inputs, each of which can be used with a push-button switch (momentary type), a toggle switch, or the voltage-free contacts of an external motion sensor. Also includes DALI-2 Application Controller to allow advanced control functions. Suitable for DALI and DALI-2 systems.

Features	• 6 separate inputs.
	• Each input allows connection to an external switch or voltage-free (dry) contact, with support for push buttons (momentary switch), toggle switch, or (external) motion sensor.
	• Connects directly to a DALI line and powered from the line.
	• DALI-2 Certified, multi-master.
	• Low current draw from a DALI line.
	• Programmable over DALI.
	• Very small, designed to be mounted behind a typical wall plate, fits in common wall boxes.
	• Each input can support extended wiring runs up to 50 metres.
	• The internal Application Controller is optional, and if used:
	  ○ Supports small systems, RAPIX Zero-Commissioning, and additional resilience when used in a RAPIX Lighting Control System;
	  ○ Actions for each input are configurable. Examples include toggle (on/off), toggle dimmer, push dimming, memory dimmer, double tap action, occupancy, vacancy, and many more. Fade on, fade off and dwell times are configurable;
	  ○ Powerful enable/disable rules;
	  ○ Support for multiple Zones - being collections of DALI Groups and/or DALI Short Addresses;
	  ○ Supports DALI and RAPIX Scenes.

Typical Applications	Commercial buildings, Boardrooms, Meeting rooms, Hotels, Health care facilities, Education facilities, Homes.

DALI System Commissioning

This product is set up using any DALI-2 commissioning software that supports DALI-2 Control Device instance types 1, 2 and 3. For the higher resilience of RAPIX and to use the built-in Application Controller, the free *RAPIX Addressing* or *RAPIX Integrator* software should be used.

DALI-2 Instances

This product has 6 instances. By default all instances are set to Type 1 – Push Button. Each instance type can be changed to Type 2 (Absolute, suitable for toggle switches) or Type 3 (Occupancy Sensor, suitable for the relay contacts of an external sensor).

RAPIX Zero-Commissioning: Out-of-box functions

This product supports RAPIX Zero-Commissioning. If there is no setup by DALI-2 or RAPIX Software, then:

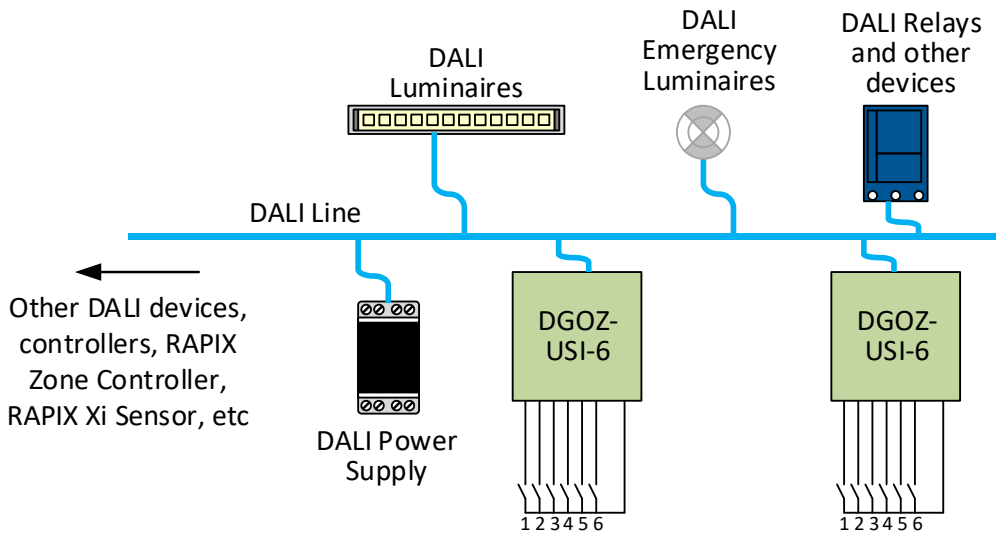
RAPIX Zero-Commissioning behaviour for this product transmits DALI Broadcast commands with behaviour appropriate to the type of input being used.

Selection of the type of out-of-box behaviour is made by linking inputs 5 and 6 to the common input. The following selections are possible:

- None: No out of box behaviour.
- Momentary Push Button Switch: Push/release to toggle ON/OFF, and push/hold to fade up and down.
- Toggle Switch: Close the switch for ON, open the switch for OFF.
- Sensor with relay contacts: Movement causes ON, there is a 15 minute timeout with no movement to OFF. If OFF is seen from another unit then a 15 second exit delay is used.

Multiple RAPIX sensors, switches and Universal Switch inputs can be used on a DALI line with out-of-box operation between them.

Connections



Specifications

Parameter	Specification
Power source	DALI line
Compatibility	DALI and DALI-2
DALI Line operating voltage	16 V dc (nominal), operation from 9.5 V – 22.5 V
DALI Line current draw	2 mA
Start up time	< 2 seconds
Mains tolerance	DALI input is mains voltage tolerant
DALI connection	Flying leads terminated by ferrule / crimp
Wire length supplied	300 mm (nominal)
Maximum connection wire length	Up to 50 m per switch input
Allowable input types	DALI-2 Type 1 (Push button switch), Type 2 (Absolute / toggle switch) or Type 3 (voltage free contacts of an occupancy sensor).
Indicators	1 x green – DALI operation 1 x red – Identification
Ambient operating temperature	0 to 50° C
Ambient storage temperature	-10 to 70° C
Humidity	0% to 95% RH non-condensing
Ingress protection	IP30
Materials	Enclosure: Flame retardant Polycarbonate
Weight	20 g
DALI addresses used	One DALI-2 Control Device Short Address, no Control Gear Short Addresses
DALI Addressing types supported	Short Addresses, Group Addresses, Scenes, Broadcast
RAPIX Application Controller DALI addressing types supported	Control Gear Short Addresses, Group Addresses, Scenes, Broadcast
Additional Addressing Types	RAPIX Zones, RAPIX Flags, RAPIX Operating Properties
Approvals	DALI 2 · RCM · CE · UKCA · RoHS COMPLIANT · WEEE

Standards & Compliance

EMC and Electrical Safety Frameworks and Standards

IEC/EN 55015, AS/NZS CISPR 15, AS CISPR 15
EN 55032, AS/NZS CISPR32
EN 61347-1, AS/NZS 61347.1
EN 61347-2-11, AS/NZS 61347.2.11

DALI Standards and Compliance

IEC 62386-101 Ed 2 (DALI-2)
IEC 62386-103 (DALI-2 Control Devices)
IEC 62386-301 (DALI-2 Instance Type Push Button
IEC 62386-302, -303 (DALI-2 Instance Absolute, Occupancy Sensor: tested, not certified)

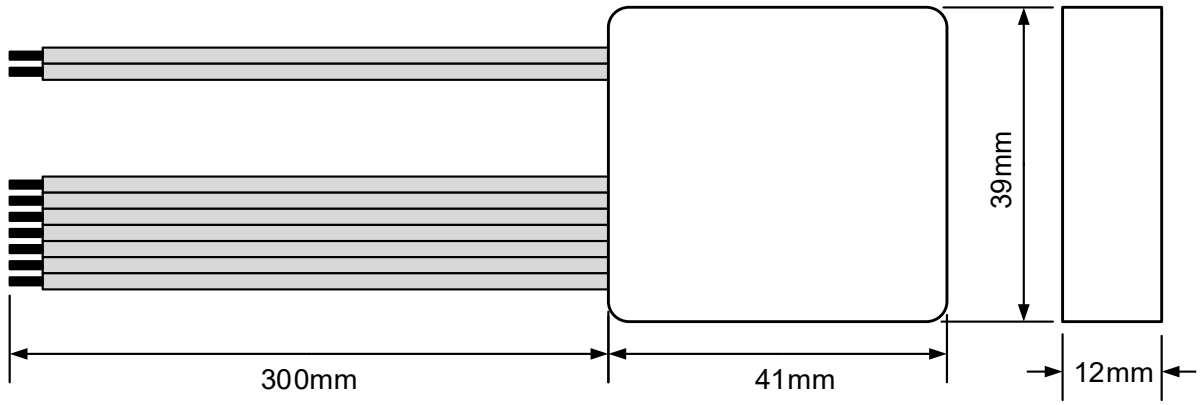
EC Council Directives

2014/35/EU Low Voltage
2014/30/EU Electromagnetic Compatibility (EMC)
2015/863 Restriction of Hazardous Substances (RoHS) in Electrical and Electronic Equipment

Important Notes

This product does not contain any wireless capabilities, ie no WiFi, Bluetooth, NFC, Zigbee, Thread, etc.

Dimensions



Contact Information

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This product includes a **TWO-YEAR WARRANTY** against manufacturing defects.

RAPIX is a trademark of Ozuno Holdings Pty Ltd.

DALI and **DALI-2** are trademarks of the Digital Illumination Interface Alliance.

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